DE LATERIBVS ET ANGVLIS TRIangulorum, tum planorum rectilineorum, tum Sphæricorum, libellus eruditissimus & utilissimus, cum ad pleraſque Ptolemæi demonſtrationes intelligendas, tum uero ad alia multa, ſcriptus à Clariſsimo & doctiſsimo uiro D. Nicolao Copernico Toronenſi.

Additus eſt Canon ſemiſsium ſubtenſarum rectarum linearum in Circulo.

Excuſum Vittembergæ per Iohannem Lufft.
Anno. M. D. XLII.

Has artes teneris annis studiosa Iuuentus
Discito, Mensuras quæ numerosq; docent.
Premia nanque feres susceptí magna laboris,
Ad cœlum monstrant hæc tibi scripta uiam.
Qua patet immensis spacijs pulcherrimus orbis,
Si metas horum cernere mente uoles.
Sidera uel quanam cœli regione uagentur,
AEterni cursus quas habeantq; uices.
Cur Luna inuoluat cæca caligine fratrem,
Cur Lunæ usuram lucis & ille neget
Venturos etiam casus quæ fata gubernent
Quas populis clades astra inimica ferant
Hęc si nosse uoles, prius est doctrina tenenda,
Quam breuirer tradunt hæc elementa tibi.
Cunq; hominũ mentes, quæ cœlo semina ducunt,
Errent a patria sede domoq; procul,
Hæc doctrina ipsas terrena mole solutas
Cœlesti reduces rursus in arce locat.

DOCTRINA ET VIRTVTE PRAESTANTI

Georgio Hartmano Noribergensi, Ioachimus Rheticus S. D.

CVM rerum humanarum inconstantiam, uarios casus summorum uirorum, regnorum mutationes considero, cum in cæteris rebus imbecillitatem humani generis deploro, tum uero maxime doleo etiam in artes diuinitus humano generi traditas fata temporum seuire. Olim studia frequentissima Mathematum fuerunt, tota ars ex fundamentis mira solertia, Deo monstrante initia & regente artificum mentes, extructa est, magna lux, magnus honos huius doctrinæ fuit, Postea multis seculis iacuit obruta tenebris, fortasse eó quód in hac ultima mundi senecta orbis terrarum Barbarorum imperijs fato quodam oppressus est. Sed quia artes uitæ utiles, præcipua Dei dona sunt, res ipsa ostendit, non humana ope, sed quodam singulari Dei beneficio, utcunq; eas conseruari, & interdum rursus ceu flammam excitari, ne funditus intereant. Sed etiam cum restitutę sunt, prorsus accidit hominibus, quod aiunt Pythagoram dixisse de cœlestium motuum harmonia, qua ille quidem dixit effici dulcissimos sonos, sed non audiri eos, quia iam propter consuetudinem negligantur, ita surdi homines nec audiunt, nec tueri student artes diuinitus nobis redditas. Et ut cętera præsentia bona fastidimus, ita & hanc doctrinam, cum fruimur quotidianis beneficijs, leuiorem ducimus. Si deesset annorum enumeratio in historijs, in relligionibus, in foro, qnantæ essent in uita tenebræ. Si numerorum doctrinam non haberemus, infinita esset legitimorum cõtra-

ctuum conturbatio. Architectonica tota ex Geometria orta est, & sunt aliæ utilitates multæ in metiendis corporibus. Hæc beneficia cum sint in manibus fontes tum negliguntur, tum uero a multis superbe contemnuntur. Itaque magna gratia debetur bonis uiris, qui in tanto doctrinæ contemptu, sponte laborem suscipiunt & sumptus faciunt, in his diuinis artibus excolendis & utilitatis publicæ causa conseruandis. Cum autem nobis monumenta utilia istic tum edantur, tum adornentur, duxi hoc te munere uicissim ornandum esse, quod non dubito tibi gratissimum fore. Scis doctrinam Triangulorum maximos usus habere, cum in alijs geometricis materijs, tum uero præcipue in Astronomia, ideoq; sæpe in eam Ptolemæus incurrit. Quare & hi qui Ptolemæum explicare conati sunt, multa de Triangulis commentati sunt. Et optarim extare ueteres Menelaum & Theodosium. Nunc recens prodijt lucubratio Regiomontani, sed multo ante quam hanc uidere potuit uir Clarissimus & doctissimus D. Nicolaus Copernicus, dum & in Ptolemæo illustrando, & in doctrina motuum traden da elaborat, de Triangulis eruditissime scripsit. Scio tibi admirationi fore hoc scriptum, cum uidebis, quantas res, quàm artificiose complexus sit. Vt autem hoc tempore ederem, eò accidit, quia in enarratione Ptolemæi nobis opus fuit Triangulorum doctrina, tibiq; eó dedicaui, ut te prouocarem ad edenda, siqua in hoc genere habes, seu uetera, seu recentia. Huc accedit, quod audio amicitiam tibi Romæ fuisse cum autoris fratre. Sed tibi uiro doctissimo non minor est causa quam hæc ad amandum autorem, acerimum ipsius ingenium, & cum in cæteris artibus, tum maxime in doctrina cœlesti eruditio tanta ut ueteribus summis artificibus conferri possit. Ac gratulari huic ætati debemus, tantum artificem reliquum esse, qui studia aliquorum accendat & adiuuet. Mihi quidem iudico rem nullam humanam contigisse meliorem, quam talis uiri & doctoris consuetudinem. Ac si quid unquam mea opera

in

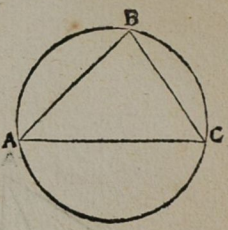
in hoc genere Reipublicæ profutura est, ad cuius utilitatem studia nostra referenda sunt, huic doctori acceptum referri uolo. Itaq; cum hanc lucubrationem & ingeniosissime scriptum esse sciam, & ego eam propter autoris memoriam magnifaciam, uelim te hoc munere magnopere delectari.

Bene vale.

DE LATERIBVS ET ANGVLIS TRIANGVlorum planorum rectilineorum.

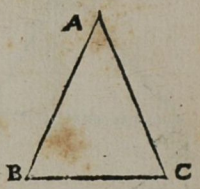
I.

TRIANGVLI datorum angulorum dantur latera. Sit, inq̃, triangulum a b c, cui per quintum problema quarti Euclidis circumscribatur Circulus. Erunt igitur & a b, b c, c a circunferentiæ datæ, eo modo, quo cccIx. partes sunt duobus rectis æquales. Datis autem circumferentijs dantur etiam latera trianguli inscripti circulo tanquam subtensæ, per expositum Canonem, in partibus, quibus dimetiens assumpta est 2000000.



II.

Si uero cum aliquo angulorum duo trianguli latera fuerint data, & reliquum latus cum reliquis angulis cognoscetur. Autenim latera data æqualia sunt aut inæqualia, Sed angulus datus aut rectus est, aut acutus, uel obtusus. Ac rursus latera data datum angulum uel comprehendunt, uel non comprehendunt. Sint ergo primum in triangulo a b c duo latera a b & a c data æqualia, quæ angulum a datum comprehendunt. Cæteri igitur, qui ad basim b c cum sint æquales, etiam dantur, uti dimidia residui ipsius a, è duobus rectis. Et si qui circa basim angulus primitus fuerit datus, datur mox ipsi compar, atque ex his duorum rectorum reliquus. Sed datorum angulorum trianguli dantur latera, datur & ipsa b c basis, ex Canone in partibus quibus a b uel a c tanquam ex centro fuerit 1000000. partium siue demetiens 2000000. partium.

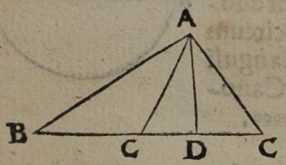


III.

Quod si angulus, qui sub b a c rectus fuerit datis cõprehensus laterib⁹, idem eueniet. Quoniam liquidissimũ est, ꝙ quę ex a b & a c fiunt quadrata, æqualia sunt ei, quod a basi b c, datur ergo longitudine b c, & ipsa latera inuicem ratione

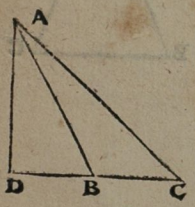
tione. Sed segmentū circuli quod orthogonū suscipit trian gulum, semicirculus est, cuius b c basis dimetiens fuerit. Qui bus igitur b c partibus fuerit 2000000. dabuntur a b & a c, tan quam subtendentes reliquos angulos b c. Quos idcirco ra tio Canonis patefaciet in partibus, quibus cccIx sunt duo bus rectis æquales. Idem eueniet, si b c fuerit datum cum altero rectum angulum comprehendentium, quod iam li quide constare arbitror.

IIII.



Sit iam datus, qui sub a b c angulus acutus, datis etiam comprehensus lateribus a b & b c, & ex a signo descendat perpendicularis ad b c productam si oportuerit, prout intra uel extra triangulum cadat, quæ sit a d, per quam discer nuntur duo orthogonij a b d & a d c, & qm̄ in a b d dantur anguli, nam d rectus & b per hypothesim. Dantur ergo a d & b d tanquam subtendentes angulos a & b in partibus, quibus a b est 2000000. dimetiens circuli per canonem. Et eadem ra tione qua a b dabatur longitudine, dantur a d & b d si militer, datur etiam c d, qua b c & b d se inuicem excedunt. Igitur & in triangulo rectangulo a d c datis lateribus a d & c d, datur latus quæsitum a c & angulus a c d per præce dentem demonstrationem.

V.



Nec aliter eueniet, si b angulus fuerit obtusus, quoniam ex a signo in b c extensam rectam lineam perpendicularis acta a d, efficit triangulum a b d datorum angulorum. Nam a b d angulus exterior ipsi a b c datur, & d rectus, dantur ergo b d & a d in partibus, quibus a b fuerit 2000000. Et quoniam b a & b c rationem habent inuicem datam, datur ergo & a b earundem partium, quibus b d ac tota c b d. Idcirco & in triangulo rectangulo a d c, cum data sint duo latera a d & c d, datur etiam a c quæsitum, & an gulus b a c cum reliquo a c b, qui quærebatur.

VI.

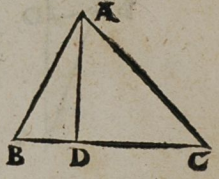
Sit iam alterutrum datorum laterum subtendens angu-

lum

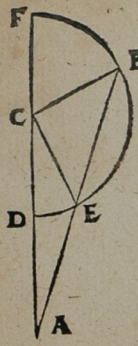
lum b datum, quod fit a c cum a b, datur ergo per Canonem a c in partibus, quibus est dimetiens circuli circumscribentis triangulum a b c partium 2000000, & pro ratione data ipsius a c, ad a b, datur in similibus partibus a b, atque per canonem, qui sub a c b angulus cum reliquo b a c angulo, per quem etiam c b subtensa datur, qua ratione data, dantur quomodolibet magnitudine.

VII.

Datis omnibus trianguli lateribus dantur anguli. De Isopleuro notius est, quam ut indicetur, quod singuli eius anguli trientem obtineant duorum rectorum. In Isoscelibus quoq; perspicuum est. Nam æqualia latera ad tertium sunt, sicut dimidia diametri ad subtendentem circumferentiam, per quem datur angulus æqualibus comprehensus lateribus ex Canone, quibus circa centrum cccIx sunt quatuor rectis æquales, deinde cæteri anguli qui ad basim etiam dantur è duobus rectis tanquam dimidia. Superest ergo nunc & in scalenis triangulis id demonstrari, quos similiter in orthogonios partiemur. Sit ergo triangulum scalenum datorum laterum a b c, & ad latus, quod longissimum fuerit, utputa b c, descendat perpendicularis a d. Admonet aũt nos xiij. secundi Euclidisq; a b latus quod acutum subtendit angulum minus sit potestate cæteris duobus lateribus, in eo quod fit sub b c & c d bis. Nam acutum angulum c esse oportet, euenietalioqui & a b longissimum esse latus contra hypothesim, quod ex xvij. primi Euclidis & duabus sequentibus licet animaduertere. Dantur ergo b d & d c, & erunt orthogonia a b d & a d c datorum laterum & angulorum, ut iam sæpius est repetitum, quibus etiam constant anguli trianguli a b c quæsiti.



Aliter. Itidem commodius forsitan penultima tertij Euclidis nobis exhibebit, si per breuius latus, quod fit b c facto c centro, interuallo autem b c, descripserimus circulum, qui ambo latera quæ supersunt, uel alterum eorum secabit. Secet modo utrumq; a b in e signo & a c



in d porrecta etiam linea a d c in f signum ad complendum diametrum d c f. His ita præstructis manifestum est ex illo Euclideo præcepto. Quoniam quod sub f a d æqualeest ei, quod sub b a e, cum sit utrunq; æquale quadrato lineæ quæ ex a circulum contingit. Sed tota a f data est, cum sint omnia ipsius segmenta data, nempe c f, c d, æqualia ipsi b c, quæ sunt ex centro ad circumcurrentem, & a d qua c a ipsam c d excedit. Quapropter & quod sub b a e datum est, & ipsa a e longitudine cum reliqua b e subtendente circumferentiam b e, Connexa e c, habebimus triangulum b c e Isosceles datorum laterum. Datur ergo angulus e b c. Hinc & in triangulo a b c reliqui anguli c & a per præcedentia cognoscentur. Non secet autem circulus ipsam a b, ut in sequenti figura, ubi a b in conuexam circumferentiam cadit, erit nihilominus b e data, & in triangulo b c e Isosceles angulus c b e datus, & exterior, qui sub a b c. ac eodem prorsus argumento demonstrationis quo prius dantur anguli reliqui.

Et hæc de triangulis rectilineis dicta sufficiant, in quibus magna pars Geodesiæ consistit. Nunc ad Sphærica conuertamur.

DE

DE TRIANGVLIS SPHAERICIS.

TRIangulum conuexum hoc loco accipimus eum, qui tribus maximorum circulorum circumferentijs in superficie Sphærica cõtinetur. Angulorum uero differentiam & magnitudinem penes circumferentiam maximi circuli, qui in puncto sectionis tanq̃ polo describitur, quamque circumferentiam circulorum quadrantes angulum comprehendentes interceperunt. Nam qualis est circumferentia sic intercepta ad totam circumcurrentem, talis est angulus sectionis ad quatuor rectos, quos diximus cccIx. partes æquales continere. I.

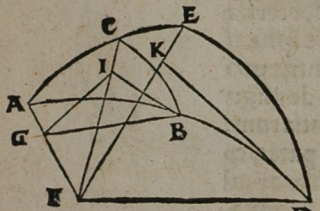
Si fuerint tres circumferentiæ maximorum circulorum sphæræ, quarum duæ quælibet simul iunctę, tertia fuerint longiores, ex his triangulum componi posse sphæricum perspicuum est. Nam quod hic de circumferentijs proponitur, xxiij. vndecimi libri Euclidis demonstrat de angulis, cum sit eadem ratio angulorum & circumferentiarum, & circuli maximi sunt qui per centrum sphæræ, patet, ꝙ tres illi circulorũ sectores, quorũ sunt circumferentiæ, apud centrum sphærę angulum constituunt solidum. Manifestum est ergo quod proponitur. II.

Quamlibet circumferentiam trianguli hemicyclio minorem esse oportet. Hemicyclium enim nullum angulum circa centrum efficit, sed in lineam rectam procumbit. At reliqui duo anguli, quorum sunt circumferentiæ, solidum in centro concludere nequeunt. Proinde neque triangulum sphæricum. Et hanc fuisse causam arbitror, cur Ptolemęus in huiusce generis triangulorum explanatione, præsertim circa figuram sectoris sphærici protestetur, ne assumptæ circumferentię semicirculo maiores existant. III.

IN Triangulis Sphæricis rectum habentibus angulum, subtendens duplum lateris, quod recto opponitur

angulo, ad ſubtenſam duplo alterius rectum angulum cõprehendentium, eſt, ſicut dimetiens Sphærę ad eam, quæ duplum anguli ſub reliquo & primo lateribus comprehenſi in maximo Sphæræ circulo ſubtendit.

Eſto nanque triangulum Sphęricum a b c, cuius c angulus rectus exiſtat. Dico quod ſubtenſa dupli a b ad ſubtenſam dupli b c eſt ſicut dimetiens Sphæræ, ad eam quæ in maximo circulo duplum anguli b a c ſubtendit. Facto in a polo, deſcribatur circumferentia maximi circuli d e, & compleantur quadrantes circulorum a b d & a c e. Et ex centro Sphæræ f agantur comunes circulurum ſectiones f a ipſorum a b d & a c e, ipſorum autem a c e & d e ſit f e, atque f d ipſorum a b d & d e. Inſuper & f c circulorum a c & b c. Deinde ad angulos rectos agantur b g ipſi f a, b i ipſi f c, & d k ipſi f e, & connectatur g i.



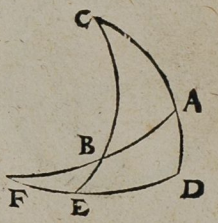
Quoniam igitur ſi circulus circulum per polos ſecat, ad angulos rectos ipſum ſecat, erit angulus qui ſub a e d comprehenditur rectus, & a c b per hypotheſim, & utrumq; planum e d f, & b c f rectum ad ipſum a e f. Quapropter ſi ex ſigno ipſi f k e communi ſegmento ad rectos angulos in ſubiecto plano recta linea excitaretur, comprehendet quoq; cum k d angulum rectum, per rectorum ad inuicem planorum definitionem. Quapropter etiam ipſa k d per iiij. vndecimi Euclidis ad a e f recta eſt. Ac eadem ratione b i ad idem planum erigitur, & idcirco adinuicem ſunt d k & b i per vi. eiuſdem. Verum etiam g b, ad f d, eo q; f g b, & g f d anguli ſunt recti, erit per x. undecimi Euclidis, angulus f d K ipſi g b i æqualis. At qui ſub f k d rectus eſt, & g i b per definitionem erectæ lineæ. Similium igitur triangulorum proportionalia ſunt latera, & ut d f ad b g, ſic d k ad b i. At b i eſt dimidia ſubtendentis duplum c b circumferentiam, quoniam ad angulum rectum eſt, ad eam, quæ ex centro f, & eadem ratione b g

dimidia

dimidia ſubtendentis duplum latus b a, & d k ſemiſsis ſubtendentis duplam d e, ſiue angulum dupli a, atque d f dimidia diametri ſphæræ. Patet igitur quod ſubtenſa dupli ipſius a b, ad ſubtenſam dupli b c, eſt ſicut dimetiens ad eam quæ duplum anguli a ſiue interceptę circumferentię d e ſubtendit, quod demonſtraſſe fuerit opportunum.

IIII.

In quocunque triangulo rectum angulum habente, alius inſuper angulus fuerit datus, cum quolibet latere, reliquus etiam angulus cum reliquis lateribus dabitur. Sit enim triangulum a b c habens angulum a rectum, & cum ipſo etiam alterutrum utputa b datum. De latere uero dato trifariam ponimus diuiſionem, aut enim fuerit, qui datis adiacet angulis, ut a b, aut recto tantum, ut a c, aut qui opponitur recto, ut b c. Sit ergo primum a b latus datum, & facto in c polo deſcribatur circumferentia maximi circuli d e, & completis quadrantibus c a d & c b e, producantur a b & d e donec ſe inuicem ſecent in f ſigno. Erit ergo uiciſsim in f polus ipſius c a d, eo cp circa a & d ſunt anguli recti. Et quoniam ſi in ſphæra maximi orbes ad rectos ſeſe inuicem ſecuerint angulos, bifariam & per polos ſe iuuicem ſecant. Sunt ergo & a b f & d e f quadrantes circulorum, cumcp data ſit a b, datur & reliqua quadrantis b f, & angulus e b f ad uerticem ipſi a b c dato æqualis. Sed per præcedentem demonſtrationem ſubtenſa dupli b f ad ſubtendentem dupli e f, eſt ſicut dimetiens ſphæræ ad ſubtendentem duplum anguli e b f. Sed tres earum datæ ſunt, dimetiens ſphæræ, duplę b f, atcp anguli dupli e b f, ſiue ſemiſſes ipſorum. Datur ergo per xvi. ſexti Euclidis etiam dimidia ſubtendentis duplam e f per canonem ipſa e f circumferentia, & reliqua quadrantis d e, ſiue angulus c quæſitus. Eodem modo ac uiciſsim ſunt ſubtenſæ duplicium d e ad a b, & e b c ad c b. Sed tres iam datæ ſunt d e, a b, & e b c quadrantes circuli, datur ergo & quarta ſubtendens duplum c b, & ipſum latus c b quæſitum. Et quoniam ſubtenſæ duplicium ſunt ipſo-



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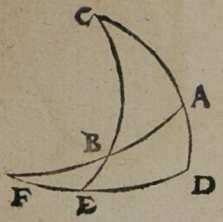
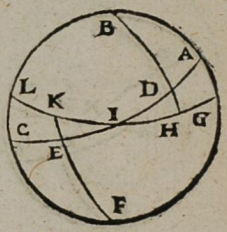


rum c b ad c a, & b f ad e f. Quoniam utrorũq; sunt rationes sicuti dimetientis sphæræ ad subtensam duplo c b a angulo, & quæ vni eædem sunt rationes, sibi inuicem sunt eædem. Tribus iam igitur datis b f e f & c b datur quarta c a, & ipsum c a tertium latus trianguli a b c. Sit iam a c latus assumptum in datis, propositumq; sit inuenire a b & b c latera, cum reliquo angulo c, habebit rursum permutatim subtensa dupli c a ad subtensam dupli c b eandem rationem, quam subtendens duplum a b c angulum ad dimetientem, quibus c b latus datur & reliqua a d & b e ex quadrantibus circulorum. Ita rursus habebimus ut subtensam dupli a d ad subtensam dupli b e, sic subtensam dupli a b f, & est dimetiens, ad subtensam dupli b f. Datur ergo b f circumferentia, quodq; supereſt a b latus. Simili ratione ut in præcedentibus ex subtendentibus dupla b c, a b & f b e, datur subtensa dupli d e, siue angulus c reliquus. Porro si b c fuerit in assumpto, dabitur rursus ut antea a c & reliquæ a d & b e, quibus per subtensas rectas lineas, & diametro, ut sæpe dictum, datur b f circumferentia & reliquũ a b latus, ac subinde iuxta p̃cedens Theorema, per b c, a b, & c b e datas proditur e d circumferentia, angulus videlicet c reliquus, quem quærebamus. Sicq; rursus in triangulo a b c duobus angulis a & b, datis, quorum a rectus existit cum aliquo trium laterum datus est angulus tertius cum reliquis duobus lateribus, quod erat demonstrandum.

V.

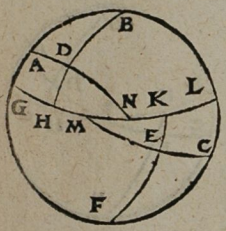
Trianguli datorum angulorũ, quorum aliquis rectus fuerit, dantur latera. Manente adhuc præcedente figura, vbi propter angulum e datum, datur d e circumferentia, & reliqua e f ex quadrante circuli. Et quoniam b e f est angulus rectus, eo quod b e descendit à polo ipsius d e f, & qui sub e b f angulus, est ad uerticem dato. Triangulum igitur b e f rectum angulũ e habens, & insuper b datum cum latere e f, datoq; est angulorum & laterum per Theorema præcedens, datur ergo b f, & reliqua ex quadrante a b, ac itidem in triangulo a b c reliqua latera a c & b c dari per præcedentia demonstratur. Si

Si in eadem ſphæra bina triangula rectum angulum ac inſuper alium ęqualem habuerint, alterũ alteri, unumq; latus vni lateri æquale, ſiue quod æqualib⁹ adiacet angulis, ſiue quod alterutro æqualium angulorum opponitur, reliqua quoq; latera, reliquis lateribus, æqualia alterum alteri, ac angulum angulo, reliquum reliquo æqualem habebunt. Sit hemiſpherium a b c, in quo ſuſcipiantur bina triangula a b d & c e f, quorum anguli a & c ſint recti, & præterea angulus a d b æqualis ipſi c e f, vnumq; latus uni lateri, & primum quod æqualibus ipſis adiacet angulis, hoc eſt, a d ipſi c e. Aio latus quoq; a b lateri c f, & b d ipſi e f, ac reliquum angulum a b d reliquo c f e, eſſe æqualia. Sumptis enim in b & f polis, deſcribantur maximorum circulorũ quadrantes g h i & i k l, compleanturq; a d i & c e i, quos ſe inuicem ſecare neceſſe eſt in polo hemiſpherij, qui ſit in i ſigno, eo quod anguli circa a & c ſunt recti, atq; quod g h i & c e i per polos ipſius a b c circuli ſunt deſcripti. Quoniam igitur a d & c e aſſumuntur latera æqualia, erunt igitur reliquæ d i & i e æquales circumferentiæ, & anguli i d h & i e k ſunt enim ad verticem poſiti aſſumptorum ęqualium, & qui circa h & k ſunt recti, & quæ vni ſunt eædem rationes inter ſe ſunt eædem, erit par ratio ſubtenſæ dupli i d, ad ſubtenſam dupli i k, cum ſit vtraq; per tertiũ præcedens, ſicut dimetientis ſphæræ ad ſubtendentem duplum angulum i d h, ſiue æqualem dupli, qui ſub i e k. Et per xiiij. quinti Elementorum Euclidis, cũ ſit ſubtendens duplam d i circumferentiam, ęqualis ei, quæ duplam i e ſubtendit, erunt quoque duplicibus ſubtenſæ i k & h i æquales, & quemadmodum in circulis ęqualib⁹ ęquales rectę lineę circũferentias auferunt ęquales, & partes eodem modo multiplicium in eadem ſunt ratione, erunt ipſæ ſimplices i h & i k circumferentiæ æquales, ac reliquæ quadrantium g h & k l, quibus conſtant anguli b & f æquales. Quapropter eadem quoq; ratio eſt ſubtenſæ duplicis a d ad ſubtenſam duplicis b d, atq; ſubtenſæ dupli c e ad ſubtenſam dupli b d, quæ ſubtenſæ duplicis c c ad ſubtenſam duplicis c f.



Vtraq;

Vtraque enim est, ut subtendentis duplam h g siue æqualem ipsi k l ad subtensam duplicis b d h, hoc est dimetientis per iij. Theorema conuersim, & a d est æqualis ipsi c e. Ergo per xiij. quinti elementorum Euclidis b d æqualis est ipsi e f per subtensas ipsis duplicibus rectas lineas. Eodem modo per b d & e f æquales, demonstrabimus reliqua latera & angulos æquales. Ac uicissim si a b & c f assumantur æqualia latera, eandem sequentur rationis identitatem.

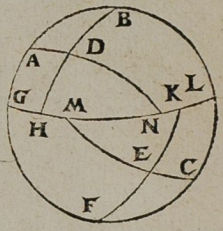


VII.

Iam quoque si non fuerit angulus rectus, dummodo latus quod æqualibus adiacet angulis alterum alteri æquale fuerit, itidem demonstrabitur. Quemadmodum si binorum triangulorum a b d & c e f, duo anguli b & d utcunq; fuerint æquales duobus angulis e & f, alter alteri, latus quoq; b d, quod adiacet æqualibus angulis, lateri e f æquale. Dico rursus æquilatera & æquiangula esse ipsa triangula. Susceptis enim denuo polis in b & f, describantur maximorum circulorum circumferentiæ g h & k l. Et productæ a d & g h se secent in n, atque e c & l k similiter productę in m. Quoniam igitur bina triangula h d n & e k m angulos h d n & k e m habent æquales, qui sunt ad uerticem assumptis æqualibus, & qui circa h & k sunt recti per polos sectione, latera etiam d h & e k æqualia. AEquiangula sunt ergo ipsa triangula & æquilatera per præcedentem demonstrationem. Acrursus quia g h & k l sunt æquales circumferentiæ propter angulos b & f positos æquales. Tota ergo g h n toti m k l æqualis per axioma additionis æqualium. Sunt igitur & hic bina triangula a g n & m c l habentia unum latus g n æquale uni m l, angulum quoque a n g æqualem c m l, atque g & l rectos. Erunt ob id ipsa quoque triangula æqualium laterum & angulorum. Cum igitur æqualia ab æqualibus sublata fuerint, relinquentur æqualia a d ipsi c e, a b ipsi c f, atque b a d angulus reliquo e c f angulo. Quod erat demonstrandum.

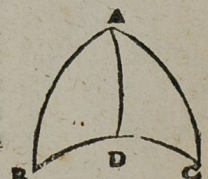
Adhuc

Adhuc autem si bina triangula, duo latera duobus lateribus æqualia habuerint, alterum alteri, & angulum angulo æqualem, siue quem latera æqualia comprehendunt, siue qui ad basim fuerit, basim quoque basi, ac reliquos angulos reliquis habebunt æquales. Vt in præcedenti figura, sit latus a b æquale lateri c f, & a d ipsi c e. Ac primum angulus a, æqualibus cõprehensus lateribus angulo c. Dico basim quoq; b d, basi e f, & angulum b ipsi f, & reliquum b d a reliquo c e f esse æqualia. Habebimus enim bina triangula a g n & c l m, quorum anguli g & l sunt recti, atq; g a n æqualem ipsi m c l, q reliqui sunt æqualium, b a d & e c f. AEquiangula igitur sunt inuicem & æquilatera ipsa triangula. Quapropter ex æqualibus a d & c e relinquuntur etiam d n & m e æqualia. Sed iam patuit angulum qui sub d n h æqualem esse ei qui sub e m k, & qui circa h k sunt recti, erunt quoq; bina triangula d h n & e m k æqualium inuicem angulorum & laterum, é quibus etiam b d relinquetur æquale ipsi e f, & g h ipsi k l, quibus sunt b & f anguli æquales, ac reliqui a d b & f e c æquales. Quod si pro lateribus a d & e c assumantur bases b d & e f æquales, æqualibus angulis obiecti, residentibus cæteris eodem modo demonstrabuntur, quoniam per angulos g a n & m c l æquales exteriores, & g c rectos, atq; a g ipsi c l, habebimus itidem bina triangula a g n & m c l, quæ prius æqualium inuicem angulorum & laterum. Illa quoq; particularia d n h & m e k, similiter propter h & k angulos rectos, & d n h, k m e æquales, atq; d h & e k latera æqualia, quę reliqua sunt quadrantium, é quibus eadem sequuntur, quæ diximus.

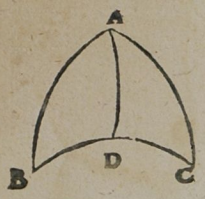


IX.

Isoscelium in Sphæra triangulorum, qui ad basim anguli, sunt sibi inuicem æquales. Esto triangulum a b c, cuius duo latera a b & a c sint æqualia. Ab a vertice descendat maximus orbis, qui secet basim ad angulos rectos, hoc est, per polos, sitq; a d. Cum igitur binorum triangulorum a b d & a d c latus b a est æquale lateri a c,



C &



& a d vtriq; cõmune & anguli, qui circa d recti, patet per præcedentem demonstrationem, q; anguli qui sub a b c & a c b sunt æquales, quod erat demonstrandum. Porisma, hinc sequitur, q; quæ per verticem trianguli Isosceli circumferentia ad angulos rectos cadit in basim, basim simul & angulum æqualibus comprehensum lateribus, bifariam secabit, & è conuerso, quod constat per hanc præcedentem demonstrationem.

X.

Bina quælibet triangula in eadem Sphæra æqualia latera habentia alterum alteri, æquales etiam angulos habebunt alterum alteri sigillatim. Quoniam enim trina vtrobique maximorum circulorum segmenta, pyramides cõstituunt fastigia habentes in centro sphæræ, bases autem triangula, quæ sub rectis lineis circumferentias trangulorum connexorum subtendentibus plana continentur, sunt q; illæ pyramides similes & æquales, per definitionem æqualium similium solidarum figurarum. Ratio autem similitudinis est, ut angulos quocunq; modo susceptos, habeant adinuicem æqualem alterum alterius, habebunt ergo angulos ipsa triangula æquales inuicem, & præsertim, qui generalius definiunt similitudinem figurarum, eas esse uolunt, quæcunq; similes habent declinationes, ac in eisdem angulos sibi inuicem æquales. E quibus manifestum esse puto, quod in sphæra triangula, quæ inuicem æquilatera sunt, similia esse, ut in planis.

XI.

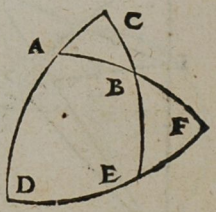
Omne triangulum, cuius duo latera fuerint data cum aliquo angulo, datorum efficitur angulorum & laterum. Nam si latera data fuerint æqualia, erunt qui ad basim anguli æquales, & deducta à vertice ad basim circumferentia ad angulos rectos, facile patebunt quæsita per porisma nonæ. Sin autem fuerint data latera inæqualia, ut in triangulo a b c, cuius angulus a sit datus, cum binis lateribus, quæ uel comprehendunt datum angulum, uel non

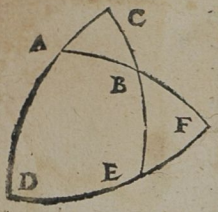
com-

comprehendunt. Sint ergo primum comprehendentes ipsum a b & a c data latera, & facto in c polo describatur circumferentia maximi circuli d e f, & compleantur quadrantes c a d & c b e, atq; a b productum secet d e in f signo. Ita quoq; in triangulo a d f datur a d latus reliquum quadrantis ex a c. Angulus etiam b a d ex c a b ad duos rectos. Nam eadem est ratio angulorum atq; dimensio, qui rectarum linearum ac planorum sectione contingunt, & d angulus est rectus. Igitur per quartam huius erit ipsum triangulum a d f datorum angulorum & laterum. Ac rursus trianguli b e f inuentus est angulus f, & e rectus per polum sectione, latus quoq; b f, quo tota a b f excedit a b. Erit ergo per idem Theorema & b e f triangulum datorum angulorum & laterum. Vnde ex b e datur b c reliquum quadrantis & latus quæsitum, & ex e f reliquum totius d e f, quod d e, & est angulus c, atq; per angulum qui sub e b f, is qui ad verticem a b c quæsitus. Quod si loco a b assumatur c b, quod dato opponitur angulo, idem eueniet. Dantur enim reliqua quadrantium a d & b e, atq; eodem argumento duo triangula a d f & b e f datorum angulorum & laterum, ut prius, é quibus triangulum a b c propositum datorum fit laterum & angulorum, quod intendebatur.

XII.

Adhuc autem si duo anguli vtcunque dati fuerint cum aliquo latere, eadem euenient. Manente enim præstructione figuræ prioris, sint trianguli a b c, duo anguli a c b & b a c dati cum latere a c, quod vtrique adiacet angulo. Porro si alter angulorum datorum rectus fuisset, poterant cætera omnia per quartum præcedens ratiocinando consequi. Hoc autem differre uolumus, quo minus sint recti. Erit igitur a d reliqua quadrantis ex a c d, & qui sub b a d angulus residuus ipsius b a c, é duobus rectis, atque d rectus. Igitur trianguli a f d per quartam huius dantur anguli cum lateribus.

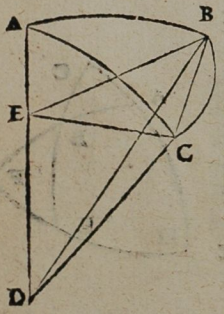




Ac per c angulum datum, datur d e circumferentia, & reliqua e f atq; b e f rectus, & f angulus communis vtriq; triangulo. Dantur itidem per quartam huius b e & b f, quibus cætera constabunt latera a b & b c quæsita. Cæterum si alter angulorum datorum lateri dato oppositus fuerit, utputa, si a b c angulus detur, loco eius q̃ sub a c b remanentibus cæteris, constabit eadem demonstratione totum a d f triangulum datis angulis & lateribus, ac particulare b e f triangulum similiter, quoniam propter angulum f vtriq; communem, & e b f qui ad verticem est dato, & e rectum cuncta etiam latera eius dari in præcedentibus demonstratur, é quibus tandem sequuntur eadem quæ diximus. Sunt enim hæc omnia mutuo semper nexu colligata, atq; perpetuo, vti formam Globi decet.

XIII.

Trianguli demum datis omnibus lateribus dantur anguli. Sint trianguli a b c omnia latera data, aio omnes quoq; angulos inueniri. Aut enim triangulum ipsum latera habebit æqualia, vel minime. Sint ergo primum æqualia a b, a c. Manifestum est, quod etiam semisses subtendentium dupla ipsorum æquales erunt. Sint ipsæ b e, c e, quæ se inuicem secabunt in' e signo, propter æqualem earum distantiam à centro sphæræ in sectione circulorum communi d e, quod patet per iiij. definitionem tertij Euclidis, & eius conuersionem. Sed per iij. eiusdem libri propositionem d e b angulus rectus est in a b d plano, & d e c similiter in plano a c d. Igitur angulus b e c est angulus inclinationis ipsorum planorum per iij. definitionem vndecimi Euclidis, quem hoc modo inueniemus. Cum. n. subtensa fuerit recta linea b c, habebimus triangulum rectilineum b e c datorũ laterum p datas illorũ circumferentias, fiet etiam da torum angulorum, & angulum b e c habebimus quæsitũ, hoc est, b a c sphęricũ, & reliquos per præcedentia. Quod si scalenon fuerit triangulum, vt in secunda figura, manifestum est, quod rectarum sub ipsis duplis semisses linearum minime se tangent. Quoniam si a c circumferentia maior



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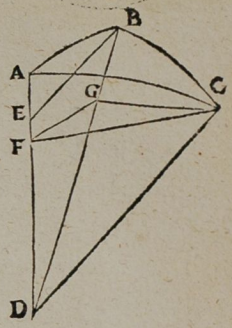
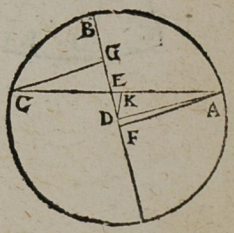
fuerit ipſi a b, ſub ipſa ac duplicata ſemiſsis, quæ ſit c f, cadet inferius. Sin minor ſuperior erit, prout accidit tales lineas propinquiores remotioresq; fieri à centro per xv. tertij Euclidis. Tunc autem ipſi b e parallelus agatur f g, quæ ſecet ipſam b d communem circulorum ſectionem in g ſigno, & connectatur c g. Manifeſtum eſt igitur, quod e f g angulus eſt rectus, nempe æqualis ipſi a e b, atq; e f c dimidia ſubtenſa exiſtente c f dupli ipſius a c etiam rectus. Erit igitur c f g angulus ſectionis ipſorum a b a c circulorum, quem idcirco etiam aſſequimur. Nam d f ad f g eſt, ſicut d e ad e b, ſimiles enim ſunt d f g & d e b trianguli. Ac in eadem ratione eſt etiam d g ad d b, dabitur etiam ipſa d g in partibus quibus eſt d c 1000000. Quinetiam qui ſub g d c angulus, datus eſt per b c circumferentiam. Ergo per ſecundam planorum datur g c latus in eiſdem partibus, quibus reliqua latera trianguli g f c plani, igitur per vltimam planorum habebimus g f c angulum, hoc eſt, b a c ſphæricum quæſitum, ac deinde reliquos per xi. ſphęricorum percipiemus.



XIIII.

Si data circumferentia circuli ſecetur vtcunq;, ut vtrumq; ſegmentorũ ſit minus ſemicirculo, & ratio dimidiæ ſubtendentis vnius ſegmenti, ad dimidium ſubtendentis duplum alterius data fuerit, dabũtur etiam ipſorum ſegmentorum circumferentiæ. Detur enim circumferentia a b c, circa d centrum, quæ utcunq; ſecetur in b ſigno, ita tamen ut ſegmenta ſint ſemicirculo minora, fuerit autem ratio dimidiæ ſub duplo a b ad dimidiam ſub duplo b c aliquo modo in longitudine data, aio etiam a b & b c dari circumferentias. Subtendatur enim a c recta, quam ſecet dimetiens in e ſigno, à terminis autem a c perpendiculares cadant ad ipſum dimetientẽ, quæ ſint a f, c g, quas oportet eſſe ſemiſſes ſub duplis a b & b c. Triangulorũ igitur a e f & c e g rectangulorũ anguli, qui ad e verticem ſunt æquales, & ipſi propterea trianguli æquianguli ac ſimiles, habent latera proportionalia æquales angulos reſpicientia. Vt a f ad



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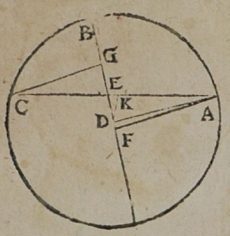
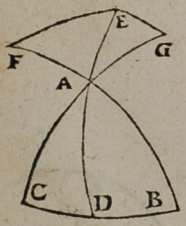


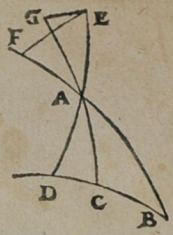
e g, sic a e ad e c. Quibus igitur numeris a f vel g c data fuerint, habebimus in ijsdem a e & e c, dabitur ex his tota a e c in eisdem. Sed ipsa subtendens a b c circumferentiam dat in partibus, quibus quę ex centro d e b, quibus etiam ipsius a c dimidia a k, & reliqua e k. Coniungantur d a & d k, quæ etiam dabuntur in eisdem partibus, quibus d b, tanquam semissis subtendentis reliquum segmentum ipsius a b c à semicirculo, comprehensum sub angulo d a k & angulus igitur a d k datur comprehendens, dimidiam a b c circumferentiam. Sed & trianguli duobus lateribus datis & angulo e k d recto, dabitur etiam e d k, hinc totus sub e d a angulus comprehendens a b circumferentiam, qua etiam reliqua c b constabit, quorum expetebatur demonstratio.

XV.

Trianguli datis omnibus angulis, etiam nullo recto, dantur omnia latera. Esto triangulum a b c, cuius omnes anguli sint dati, nullus autem eorum rectus. Aio omnia quoque latera eius dari. Ab aliquo enim angulorum ut a descendat per polos ipsius b c circumferentia a d, quæ secabit ipsum b c a dangulos rectos, ipsaq; a d cadet in triangulum, nisi alter angulorum b uel c ad basim obtusus esset, & alter acutus, quod si accideret, ab ipso obtuso deducendus esset ad basim. Completis igitur quadrantibus b a f, c a g, d a e, factisq; polis in b c, describantur circumferentiæ e f, e g. Erunt igitur & circa f g anguli recti. Triangulorum igitur rectum angulum habentium erit ratio dimidiæ quæ sub duplo a e, ad dimidiam sub duplo e f, quæ dimidia diametri sphæræ ad dimidiam subtendentis duplum anguli e a f. Similiter in triangulo a e g angulum rectum habente g, semissis quæ sub duplo a e ad semissem, quæ sub duplo e g, eandem habebit rationē, quam dimidia diametri sphæræ ad dimidiam, quæ duplum anguli e a g subtendit. Per [illegible] igitur rationem dimidia sub duplo e f ad dim[illegible] uplo e g rationem



nem habebit, quam semissis sub duplo angulo e a f ad semissem sub duplo anguli e a g. Et quoniam & f e, e g circumferentiæ datæ sunt, sunt enim residua, quibus anguli a & b differunt à rectis. Habebimus ergo ex his rationem angulorum e a f & e a g, hoc est, b a d ad c a d, qui illis ad verticem sunt, datos. Totus autem b a c datus est. Per præcedens igitur Theorema etiam b a d & c a d anguli dabuntur.



Deinde per quintum, latera a b, b c, a c, c d, totumq; b c assequemur.

FINIS.

CANONSVBTEN
SARVM IN CIRCVLO RE-
ctarum linearum.

CANON SVB TENSARVM

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1	2909	2909	177433	2608	351502	2907	526163	2505	700467		59
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5	14544		189066		363130		537884		712073		55
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7	20362		194883		368944		543694		717876	2901	53
8	23271		197792		371851		546598		720777		52
9	26180		200700		374756		549503	2904	723678		51
10	29088		203608		378064		552407		726579		50
11	31997		206517		380971		555312		729480		49
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14	40724		215241		389692		564024		738183		46
15	43632		218149		392598		566928		741084		45
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17	49450		223963		398412		572736		746886		43
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19	55268		229781		404225		578544		752688	2900	41
20	58177		232685		407131		581448		755588		40
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23	66904		241413		415851		590160		764290		37
24	69813		244321		418757		593064		767180		36
25	72721		247229		421663		595967		770090		35
26	75630		250137		424570		598871		772991		34
27	78539		253045		427476		901775		775891		33
28	81448		255953		430382		604678		778791		32
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35	101809		276308		450724		625002		799090		25
36	104718		279216		453630		627905		801990		24
37	107627		282124		456536		630808		804889		23
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39	113445		287940		462348		636614		810688		21
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CANON SVBTENSARVM

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5	3886045		1059749		1233128		1406133		1578705		55
6	3888943		1062642	2892	1236015		1409013		1581581	2872	54
7	3891840		1065534		1238903		1411893		1584453		53
8	3894737		1068426		1241788		1414772		1587325		52
9	3897634	2897	1071318		1244674	2886	1417652		1590197		51
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13	3909222		1082886		1256218		1429168		1601684	2871	47
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26	3946875		1120471		1293726		1466586	2877	1638999		34
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7	1759394		1930928		2101874		2272179		2441792		52
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9	1765121		1936636	2853	2107562	2843	2277844		2447434	2820	50
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23	1805192		1976574		2147353		2317479		2486900	2817	36
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26	1813774		1985127		2155876		2325967		2495351		33
27	1816634		1987978	2850	2158716		2328799		2498168	2816	32
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51	1882384		2053503		2223994		2393806	2824	2562894		9
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38	2694802		2862459		3029244		3195108	6	3359996		22
39	2697603		2865246		3032016		3197864		3362736	2739	21
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CANON SVBTENSARVM

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17	3 4 6 6 6 2 9	8	3 6 2 9 8 0 2	2710	3 7 9 1 8 7 0		3 9 5 2 7 8 4		4 1 1 2 4 9 3	1	43
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31	3504799		3667718		3829521		3990159	7	4149579		29
32	3507523		3670424		3832208		3992826		4152226	6	28
33	3510247		3673130	5	3834895	6	3995493		4154872		27
34	3512971	3	3675835		3837581		3998157	6	4157518	5	26
35	3515694		3678541		3840267		4000825		4160163		25
36	3518417		3681246		3842953	5	4003491	5	4162808		24
37	3521140	2	3683951	4	3845636		4006156		4165453	4	23
38	3523862		3686655		3848323		4008821	4	4168097		22
39	3526584		3689359	3	3851008	4	4011486		4170741		21
40	3529306	1	3692062		3853692		4014150		4173385	3	20
41	3532027		3694765		3856376		4016814		4176028		19
42	3534748		3697469	2	3859060	3	4019478	3	4178671		18
43	3537469		3700170		3861743		4022141		4181413	2	17
44	3549190	2720	3702872		3864426		4024804		4183955		16
45	3542910		3705574		3867109	2	4027467		4186597		15
46	3545630		3708276	1	3869791		4030130	2	4189239	1	14
47	3548350		3710977		3872473		4032792		4191880		13
48	3551070		3713678		3875155		4035454	1	4194521		12
49	3553789	2719	3716379		3877837	1	4038115		4197162	2640	11
50	3556508		3719080	2700	3880518		4040776		4199802		10
51	3559227	8	3721780		3883199		4043437	2660	4202442		9
52	3561945		3724480		3885880	2680	4046097		4205081	2639	8
53	3564663	7	3727179	2699	3888560		4048757	2659	4207720		7
54	3567380		3729878		3891240	2679	4051416		4210359	8	6
55	3570097		3732577	8	3893919		4054075		4212997		5
56	3572814		3735275		3896598		4056734	8	4215635		4
57	3575531	6	3737973		3899277	8	4059392		4218273	7	3
58	3578247		3740671		3901955		4062050		4220910		2
59	3580963		3743369	7	3904633		4064708		4223547	6	1
60	3583679		3746066		3907311		4067366		4226183		0
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CANON SVBTENSARVM

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1	4228819	2636	4386326	2614	4542497	2591	4697284	2568	4850640	2544	59
2	4231455	5	4388940	4	4545088	1	4699852	8	4853184	3	58
3	4234090	5	4391554	4	4547679	1	4702419	7	4855727	3	57
4	4236725	5	4394167	3	4540270	2590	4704986	7	4858270	2	56
5	4239360	5	4397780	3	4552860	0	4707553	7	4860812	2	55
6	4241994	4	4399392	2	4555450	0	4711129	6	4863354	1	54
7	4244628	4	4402004	2	4558039	2589	4712685	6	4865895	1	53
8	4245272	4	4404616	2	4560628	9	4715250	5	4868436	1	52
9	4249895	3	4407227	1	4563216	8	4717815	5	4870977	2540	51
10	4252528	3	4409838	1	4565804	8	4720380	5	4873517	0	50
11	4255161	2	4412449	1	4568392	8	4722944	4	4876057	2539	49
12	4257793	2	4415059	2610	4570979	7	4725508	4	4878596	9	48
13	4260425	1	4417669	0	4573566	7	4728071	3	4881135	9	47
14	4263056	1	4420278	2609	4576153	7	4730634	3	4883674	8	46
15	4265687	1	4422887	9	4578739	6	4733197	3	4886212	8	45
16	4268318	1	4425496	9	4581325	6	4735759	2	4888750	7	44
17	4270949	2630	4428104	8	4583911	6	4738321	2	4891287	7	43
18	4273579	0	4430712	8	4586496	5	4740882	1	4893824	7	42
19	4276209	2629	4433320	8	4589081	5	4743443	1	4896361	6	41
20	4278838	9	4435927	7	4591665	4	4746004	2560	4898897	6	40
21	4281467	9	4438534	7	4594249	4	4748564	0	4901433	5	39
22	4284096	9	4441140	6	4596833	4	4751124	2559	4903968	5	38
23	4286724	8	4443746	6	4599416	3	4753683	9	4906503	4	37
24	4289352	8	4446352	6	4601999	3	4756242	9	4909037	4	36
25	4291979	7	4448957	5	4604581	2	4758801	8	4911571	4	35
26	4294606	7	4451562	5	4607163	2	4761359	8	4914105	3	34
27	4297233	7	4454167	5	4609744	1	4763917	7	4916638	3	33
28	4299859	6	4456771	4	4612325	1	4766474	7	4919171	2	32
29	4302485	6	4459375	4	4614906	1	4769031	7	4921703	2	31
30	4305111	6	4461978	3	4617486	2580	4771588	6	4924235	2	30
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31	4307736	5	4464581	3	46200066	0	4774144	6	49267671	1	29
32	4310361	5	4457184	3	46226466	0	4776700	5	49292981	1	28
33	4312986	5	4469786	2	46252251	2579	4779255	5	49318291	2530	27
34	4315610	4	4471389	2	46278041	8	4781810	5	49343591	0	26
35	4318234	4	4474990	2	46303821	8	4784365	4	49368891	2529	25
36	4320858	4	4477591	1	46329601	8	4786919	4	49394181	9	24
37	4323481	3	4480192	1	46355381	7	4789473	3	49419471	9	23
38	4326104	3	4482792	2600	46381151	7	4792026	3	49444761	8	22
39	4328726	2	4485392	0	46406921	6	4794579	3	49470041	8	21
40	4331348	2	4487992	0	46432681	6	4797132	2	49495321	7	20
41	4333970	2	4490591	2599	46458441	6	4799684	2	49520591	7	19
42	4336591	1	4493190	9	46484201	5	4802236	1	49545861	7	18
43	4339212	1	4495788	8	46509951	5	4804787	1	49571131	6	17
44	4341833	1	4498386	8	46535701	5	4807338	2550	49596391	6	16
45	4344453	2620	4500984	8	46561451	4	4809888	0	49621651	5	15
46	4347073	0	4503582	8	46587191	4	4812438	0	49646901	5	14
47	4349693	0	4506179	7	46612931	3	4814988	2549	49672151	5	13
48	4352312	2619	4508776	7	46638661	3	4817537	9	49697401	4	12
49	4354931	9	4511372	6	46664391	3	4820086	9	49722641	4	11
50	4357549	8	4513968	6	46690121	2	4822635	8	49747881	3	10
51	4360167	8	4516563	5	46715841	2	4825183	8	49773111	3	9
52	4362785	8	4519158	5	46741501	1	4827731	7	49798341	2	8
53	4365402	7	4521753	5	46767271	1	4830278	7	49823561	2	7
54	4368019	7	4524347	4	46792981	1	4832825	6	49848781	1	6
55	4370635	6	4516941	4	46718691	2570	4835371	6	49873991	1	5
56	4373251	6	4529535	4	46844391	0	4837917	5	49899201	1	4
57	4375867	6	4532128	3	46870091	0	4840462	5	49924411	2520	3
58	4378482	5	4534721	3	46895781	2569	4843007	5	49949611	0	2
59	4381097	5	4537313	2	46921471	9	4845552	4	49974811	2519	1
60	4383712	5	4539905	2	46947161	9	4848096	4	50000000	9	0
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CANON SVBTENSARVM

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1	5002519	2519	5152874	2493	5301659	2466	5448829	2439	5594340	2411	59
2	5005038	8	5155367	2	5304125	6	5451263	9	5596751	2410	58
3	5007556	8	5157859	2	5306591	5	5453707	8	5599161	0	57
4	5010074	7	5160351	2	5309056	5	5456145	8	5601571	9	56
5	5012591	7	5162843	1	5311521	4	5458583	7	5603981	2409	55
6	5015108	6	5165334	1	5313985	4	5461020	6	5606390	8	54
7	5017624	6	5167825	2490	5316449	4	5463456	6	5608798	8	53
8	5020190	6	5170315	0	5318913	3	5465802	6	5611206	8	52
9	5022650	5	5172805	2489	5321376	3	5468328	5	5613614	7	51
10	5025171	5	5175294	9	5323839	2	5470763	5	5616021	6	50
11	5027686	4	5177783	8	5326301	2	5473198	4	5618427	6	49
12	5030200	4	5180271	8	5328763	1	5475632	4	5620833	6	48
13	5032714	3	5182759	7	5331224	1	5478066	3	5623239	5	47
14	5035227	3	5185246	7	5333685	2460	5480499	3	5625644	5	46
15	5037740	3	5187733	7	5336145	0	5482932	2	5628049	4	45
16	5040253	2	5190220	6	5338605	0	5485364	2	5630453	4	44
17	5042765	2	5192706	6	5341065	2459	5487796	2	5632857	3	43
18	5045277	1	5195192	5	5343524	9	5490228	1	5635260	3	42
19	5047788	1	5197667	5	5345983	8	5492659	1	5637661	3	41
20	5050299	2510	5200162	4	5348441	8	5495090	2430	5640066	2	40
21	5052809	0	5202646	4	5350898	7	5497520	0	5642468	1	39
22	5055319	0	5205130	4	5353355	7	5499950	2429	5644869	1	38
23	5057829	2509	5207614	3	5355812	6	5502379	9	5647270	2400	37
24	5060338	9	5210097	3	5358268	6	5504808	8	5649670	0	36
25	5062847	8	5212580	2	5360724	5	5507236	8	5652070	2399	35
26	5065355	8	5215062	2	5363179	5	5509664	7	5654469	9	34
27	5067863	7	5217544	1	5365634	4	5512091	7	5656868	8	33
28	5070370	7	5220025	1	5368088	4	5514518	6	5659266	8	32
29	5072877	7	5222506	2480	5370542	4	5516944	6	5661664	8	31
30	5075384	6	5224986	0	5372996	3	5519370	5	5664062	7	30
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31	5077890	6	5227466	0	5375449	3	5521795	5	5666459	7	29
32	5080396	5	5229946	2479	5377902	2	5524220	5	5668856	6	28
33	5082901	5	5232425	9	5380354	2	5526645	4	5671252	9	27
34	5085406	5	5234904	8	5382806	2	5529069	4	5673648	5	26
35	5087911	4	5237382	8	5385255	1	5531491	3	5676043	5	25
36	5090415	4	5239860	7	5387709	2450	5533916	2	5678438	4	24
37	5092919	3	5242337	7	5390159	0	5536338	2	5680832	4	23
38	5095422	3	5244814	6	5392609	2449	5538760	2	5683226	3	22
39	5097925	2	5247290	6	5395058	9	5541182	1	5685619	3	21
40	5100427	2	5249766	5	5397507	8	5543603	1	5688012	2	20
41	5102929	1	5252241	5	5399955	8	5546024	2420	5690404	2	19
42	5105430	1	5254716	5	5402403	8	5548444	0	5692796	1	18
43	5107931	2500	5257191	4	5404851	7	5550864	2419	5695187	1	17
44	5110431	0	5259665	4	5407298	7	5553283	9	5697578	2390	16
45	5112931	0	5262139	3	5409745	6	5555702	8	5699968	0	15
46	5115431	2499	5264612	3	5412191	6	5558120	8	5702358	2389	14
47	5117930	9	5267085	2	5414637	5	5560538	8	5704747	9	13
48	5120429	8	5269557	2	5417082	5	5562956	7	5707136	8	12
49	5122927	8	5272029	2	5419527	5	5565373	7	5709524	8	11
50	5125425	7	5274501	1	5421972	4	5567790	6	5711912	7	10
51	5127922	7	5276972	1	5424416	3	5570206	6	5714269	7	9
52	5130419	7	5279443	2476	5426859	3	5572622	5	5716686	6	8
53	5132916	6	5281913	6	5429302	3	5575037	5	5719072	6	7
54	5135412	6	5284383	2469	5431745	2	5577452	4	5721458	6	6
55	5137908	5	5286852	9	5434187	2	5579866	4	5723844	5	5
56	5140403	5	5289321	9	5436629	1	5582280	3	5726229	4	4
57	5142898	5	5291789	8	5439070	2440	5584693	3	5728613	4	3
58	5145393	4	5294257	8	5441510	0	5587106	2	5730997	4	2
59	5147887	4	5296725	8	5443950	0	5589518	1	5733381	3	1
60	5150381	3	5299192	7	5446390	2439	5591929	1	5735764	3	0
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1	5738147	2382	5880205	2353	6020473	2323	6158907	2291	6295464	2260	59
2	5740529	2	5882558	2	6022796	2	6161198	1	6297724	2259	58
3	5742911	1	5884910	2	6025118	1	6163489	1	6299983	9	57
4	5745292	2380	5887262	1	6027439	1	6165780	2290	6302242	9	56
5	5747672	0	5889613	1	6029760	2320	6168070	2289	6304501	8	55
6	5750052	0	5891964	2350	6032080	0	6170259	9	6306759	8	54
7	5752432	2379	5894314	0	6034400	2319	6172648	8	6309016	7	53
8	5754811	9	5896664	2349	6036719	9	6174936	8	6311273	6	52
9	5757190	8	5899013	8	6039038	9	6177224	8	6313529	5	51
10	5759568	8	5901361	8	6041357	8	6179512	7	6315784	5	50
11	5761946	7	5903709	7	6043675	7	6181799	6	6318039	4	49
12	5764323	7	5906056	7	6045992	7	6184085	6	6320293	4	48
13	5766700	6	5908403	7	6048309	6	6186371	5	6322547	3	47
14	5769076	6	5910750	9	6050625	5	6188656	4	6324800	3	46
15	5771452	5	5913096	9	6052940	5	6190940	4	6327053	2	45
16	5773827	5	5915442	5	6055255	5	6193224	4	6329305	2	44
17	5776202	4	5917787	5	6057570	4	6195508	3	6331557	1	43
18	5778576	4	5920132	4	6059884	4	6197791	3	6333808	1	42
19	5780950	4	5922476	4	6062198	3	6200074	2	6336059	1	41
20	5783324	3	5924820	3	6064511	3	6202356	2	6338310	2250	40
21	5785697	2	5927163	2	6066824	2	6204638	1	6340560	2249	39
22	5788069	2	5929505	2	6069136	2	6206919	2280	6342809	9	38
23	5790441	1	5931847	2	6071448	1	6209199	0	6345058	8	37
24	5792812	1	5934189	1	6073759	2310	6211479	2279	6347306	7	36
25	5795183	2379	5936530	1	6076069	0	6213758	9	6349553	7	35
26	5797553	0	5938871	2340	6078379	2309	6216037	8	6351800	6	34
27	5799923	2369	5941211	0	6080688	9	6218315	8	6354046	6	33
28	5802292	9	5943551	339	6082997	9	6220593	7	6356292	5	32
29	5804661	9	5945890	8	6085306	8	6222870	6	6358537	5	31
30	5807030	8	5948228	8	6087614	8	6225146	6	6360782	4	30
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31	5809398	8	5950566	8	6089922	7	6227422	6	6363026	4	29
32	5811766	7	5952904	7	6092229	7	6229698	5	6365270	3	28
33	5814133	6	5955241	7	6094536	6	6231973	5	6367513	3	27
34	5816499	6	5957578	6	6096842	5	6234248	4	6369756	3	26
35	5818865	5	5959914	6	6099147	5	6236522	4	6371999	2	25
36	5821230	5	5962250	5	6091452	4	6238796	3	6374241	1	24
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53	5861367	7	6001876	6614	0557	6	6277368	4	6412264	2	7
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5	6439011	5	6571560	3	6702108	5	6830614	4	6957039	2089	55
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9	6447909	3	6580326	0	6710739	6	6839107	2	6965392	7	51
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29	6492269	2	6624021	2179	6753757	5	6881436	2110	7007018	5	31
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57	6554001	7	5684818	3	6813599	9	6940303	4	7062895	8	3
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3	7077236	6	7199457	9	7319486	2	7437284	5	7552818	6	57
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5	7081343	4	7203494	7	7323449	1980	7441173	3	7556630	5	55
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9	7089556	1	7211559	5	7331367	8	7448941	1	7564246	2	51
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11	7093658	2050	7215588	3	7335322	6	7452822	1939	7568050	1	49
12	7095708	2049	7217601	3	7337298	6	7454761	8	7569951	1900	48
13	7097757	9	7219614	3	7339274	6	7456699	8	7571851	0	47
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15	7101854	8	7223639	2	7343225	4	7460574	7	7575650	8	45
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17	7105949	6	7227662	2010	7347173	3	7464447	5	7579446	7	43
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23	7118218	3	7239711	7	7359001	1969	7476049	2	7590819	4	37
24	7120261	2	7241718	6	7360970	9	7477981	1	7592713	3	36
25	7122303	1	7243724	5	7362939	8	7479912	1930	7594606	2	35
26	7124344	1	7245729	4	7364907	7	7481842	1929	7596498	1	34
27	7126385	2040	7247733	4	7366874	7	7483771	9	7598389	1	33
28	7128425	0	7249737	4	7368841	6	7485700	9	7600280	0	32
29	7130465	2039	7251741	3	7370807	6	7487629	8	7602170	1890	31
30	7132504	9	7253744	2	7372773	5	7489557	7	7604060	1889	30
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33	7138618	7	7259748	1	7378666	3	7495336	6	7609725	7	27
34	7140655	6	7261749	2000	7380629	3	7497262	5	7611612	6	26
35	7142691	6	7263749	1999	7382592	2	7499187	4	7613498	6	25
36	7144727	5	7265746	8	7384554	1	7501111	3	7615384	5	24
37	7146762	4	7267746	8	7386515	1960	7503034	3	7617269	4	23
38	7148796	4	7269744	7	7388475	0	7504957	2	7619153	4	22
39	7150830	3	7271741	6	7390435	1959	7506879	2	7621037	3	21
40	7152863	2	7273737	6	7392394	9	7508801	1	7622920	2	20
41	7154895	2	7275733	5	7394353	8	7510722	1920	7624802	1	19
42	7156927	1	7277728	4	7396311	7	7512642	1919	7626683	1	18
43	7158958	1	7279722	4	7398268	7	7514561	9	7628564	1	17
44	7160989	0	7281716	4	7400225	6	7516480	8	7630445	1880	16
45	7163019	2030	7283710	3	7402181	6	7518398	8	7632325	1879	15
46	7165049	2029	7285703	2	7404137	5	7520316	7	7634204	8	14
47	7167078	8	7287695	2	7406092	4	7522233	6	7636082	8	13
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55	7183287	3	7303610	7	7421708	1949	7537546	1	7651088	3	5
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57	7187333	2	7307583	5	7425605	8	7541367	0	7654833	1	3
58	7189355	2	7309568	5	7427553	8	7543277	1910	7656704	1	2
59	7191377	1	7311553	4	7429501	7	7545187	1909	7658575	1870	1
60	7193398	0	7313537	4	7431448	8	7547076	8	7660445	1869	0
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CANON SVBTENSARVM

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1	7662314	1869	7773290	1830	7881899	1790	7988105	1750	8091879	8	59
2	7664183	8	7775120	1829	7883688	1789	7989855	1749	8093588	8	58
3	7666051	8	7776949	8	7885477	9	7991604	8	8095296	8	57
4	7667919	7	7778777	8	7887266	8	7993352	8	8097004	7	56
5	7669786	6	7780605	7	7889054	7	7995100	7	8098711	6	55
6	7671652	5	7782432	6	7890841	6	7996847	6	8100417	5	54
7	7673517	5	7784258	6	7892627	6	7998593	6	8102122	5	53
8	7675382	4	7786084	5	7894413	5	8000339	5	8103827	4	52
9	7677246	4	7787909	4	7896198	5	8002084	4	8105531	3	51
10	7679110	3	7789733	4	7897983	4	8003828	3	8107234	2	50
11	7680973	2	7791557	3	7899767	3	8005571	3	8108936	2	49
12	7682835	2	7793380	2	7901550	2	8007314	2	8110638	1	48
13	7684687	1	7795202	2	7903332	2	8009056	1	8112339	1	47
14	7686558	1860	7797024	1	7905114	1	8010797	1	8114040	1700	46
15	7688418	0	7798845	1820	7906895	1	8012538	1740	8115740	1699	45
16	7690278	1859	7800665	0	7908676	1780	8014278	1739	8117439	8	44
17	7692137	9	7802485	1819	7910456	1779	8016017	9	8119137	8	43
18	7693995	8	7804304	9	7912235	9	8017756	8	8120835	7	42
19	7695853	8	7806123	8	7914014	8	8019494	8	8122532	7	41
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23	7703277	5	7813390	5	7921121	5	8026440	5	8129314	4	37
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25	7706986	3	7817020	4	7924671	4	8029909	3	8132701	2	35
26	7708839	3	7818834	3	7926445	3	8031642	3	8134393	1	34
27	7710692	2	7820647	2	7928218	2	8033375	2	8136084	1	33
28	7712544	1	7822459	2	7929990	2	8035107	1	8137775	1690	32
29	7714395	1	7824271	1	7931762	1	8036838	1	8139465	0	31
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33	7721794	8	7831511	9	7938842	8	8043757	8	8146220	7	27
34	7723642	8	7833330	8	7940611	8	8045485	7	8147907	6	26
35	7725490	7	7835128	7	7942375	7	8047212	6	8149593	5	25
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37	7729183	5	7838741	6	7945912	6	8050664	5	8152963	4	23
38	7731028	4	7840547	5	7947678	5	8052389	5	8154647	3	22
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42	7738402	2	7847764	2	7954735	2	8059283	2	8161376	1	18
43	7740244	1	7849566	2	7956497	2	8061005		8163057	1680	17
44	7742085	1	7851368	1	7958259	1	8062726	1720	8164737	1679	16
45	7743926	1840	7853169	1	7960020	0	8064446	0	8166416	8	15
46	7745766	0	7854970	1800	7961780	1760	8066166	1719	8168094	8	14
47	7747606	1839	7856770	1799	7963540	1759	8067885	8	8169772	7	13
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58	7767797	2	7876525	2	7982852	2	8086749	1	8188182	1669	2
59	7769629	1	7878317	1	7984604	1	8089460	1710	8189851	9	1
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1	31931 88	1667	32920 02	6	33882 90	3	34820 22	1540	35731 71	7	59
2	31948 55	7	32936 28	5	33893 73	3	34835 62	0	35746 68	6	58
3	31965 22	6	32952 53	4	33914 56	2	34851 02	1539	35761 64	6	57
4	31981 89	6	32968 77	4	33930 38	1	34866 41	5	35777 60	5	56
5	31998 54	5	32985 01	3	33946 19	1580	34881 80	8	35791 55	4	55
6	32015 19	4	33001 27	2	33961 99	1579	34897 18	7	35806 49	3	54
7	32031 83	3	33017 46	1	33977 78	9	34912 55	7	35821 42	3	53
8	32048 46	2	33033 67	1620	33993 57	8	34927 91	5	35836 35	2	52
9	32065 08	2	33049 87	0	34009 35	8	34943 26	4	35851 27	2	51
10	32081 70	1	33066 07	1615	34025 13	7	34958 60	4	35866 19	1	50
11	32098 31	1650	33082 26	8	34040 90	6	34973 94	3	35881 10	1490	49
12	32114 91	0	33098 44	8	34056 66	5	34989 27	2	35896 00	1489	48
13	32131 51	1559	33114 62	7	34072 41	5	35004 59	2	35910 89	8	47
14	32148 10	9	33130 79	7	34088 16	4	35019 91	1	35925 77	7	46
15	32164 69	8	33146 96	8	34103 90	3	35035 22	1530	35940 64	7	45
16	32181 27	7	33163 12	5	34119 63	3	35050 52	0	35955 51	6	44
17	32197 84	6	33179 27	4	34135 36	2	35065 82	1529	35970 37	6	43
18	32214 40	6	33195 41	4	34151 08	1	35081 11	8	35985 23	5	42
19	32230 96	5	33211 55	3	34166 79	1	35096 39	8	36000 08	4	41
20	32247 51	4	33227 68	2	34182 50	1570	35111 67	7	36014 92	3	40
21	32264 05	3	33243 80	1	34198 20	1569	35126 94	6	36029 75	2	39
22	32280 58	3	33259 91	1	34213 89	8	35142 20	5	36044 57	2	38
23	32297 11	2	33276 02	1610	34229 57	8	35157 45	5	36059 39	1	37
24	32313 63	2	33292 12	0	34245 25	7	35172 70	4	36074 20	1	35
25	32330 15	1	33308 22	1609	34260 92	6	35187 94	3	36089 01	1480	35
26	32346 66	1650	33324 31	8	34276 58	5	35203 17	2	36103 81	1479	34
27	32363 16	1649	33340 39	7	34292 23	5	35218 39	2	36118 60	8	33
28	32379 65	9	33356 46	6	34307 88	4	35233 61	1	36133 38	7	32
29	32396 14	8	33372 52	6	34323 52	3	35248 82	1520	36148 15	7	31
30	32412 62	7	33388 58	5	34339 15	3	35264 02	1519	36162 92	6	30
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32	8244556	6	8342067	4	8437039	1	8529440	8	8619243	5	28
33	8246202	5	8343671	3	8438609	1	8530958	8	8620718	4	27
34	8247847	5	8345274	3	8440161	1560	8532476	7	8622192	3	26
35	8249492	4	8346877	2	8441721	1559	8533993	6	8623665	2	25
36	8251136	3	8348479	1	8443280	8	8535509	5	8627137	1	24
37	8252779	2	8350080	1600	8444838	8	8537024	4	8626608	1	23
38	8254421	1	8351680	9	8446396	7	8538538	4	8628079	1470	22
39	8256062	1	8353279	1599	8447953	6	8540052	3	8629549	0	21
40	8257703	1640	8354878	8	8449509	5	8541565	2	8631019	1469	20
41	8259343	1639	8356476	7	8451064	4	8543077	1	8632488	8	19
42	8260982	9	8358073	7	8452618	4	8544588	1	8633956	7	18
43	8262621	8	8359670	6	8454172	3	8546099	0	8637423	6	17
44	8264259	8	8361266	6	8455725	3	8547609	1510	8636889	6	16
45	8265897	7	8362862	5	8457278	2	8549119	1509	8638355	5	15
46	8267534	6	8364457	4	8458830	1	8550628	8	8639820	4	14
47	8269170	6	8366051	3	8460381	1	8552136	7	8641284	4	13
48	8270806	5	8367644	2	8461932	1550	8553643	6	8642748	3	12
49	8272441	4	8369236	2	8463482	1549	8555149	6	8644211	2	11
50	8274075	3	8370828	1	8465031	8	8556655	5	8645673	1	10
51	8275708	2	8372419	1590	8466579	7	8558160	4	8647134	1	9
52	8277340	2	8374009	0	8468126	7	8559664	4	8648595	1460	8
53	8278972	1	8375599	1589	8469673	6	8561168	3	8650055	1459	7
54	8280603	1	8377188	8	8471219	6	8562671	2	8651514	9	6
55	8282234	1630	8378756	7	8472765	5	8564173	2	8652973	8	5
56	8283864	1629	8380363	7	8474310	4	8565675	1	8654431	7	4
57	8285493	8	8381950	6	8475854	3	8567176	1500	8655888	6	3
58	8287121	8	8383536	5	8477297	2	8568676	1499	8657344	5	2
59	8288749	7	8385121	5	8478939	2	8570175	8	8658799	5	1
60	8290376	6	8386706	4	8480481	1	8571673	8	8660254	4	0
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CANON SVBTENSARVM

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1	8651708	1417	8747607	1409	8830841	4	8911385	1319	8989215	4	59
2	8663162	3	8749016	9	8832205	4	8912704	9	8990489	3	58
3	8664615	2	8750425	8	8833569	3	8914023	8	8991762	3	57
4	8666067	1	8751833	7	8834932	3	8915341	8	8993035	2	56
5	8667518	1450	8753240	6	8836295	2	8916659	7	8994307	1	55
6	8668968	1449	8754646	5	8837657	1	8917976	7	8995578	1270	54
7	8670417	9	8756051	5	8839018	1360	8919292	5	8996848	1269	53
8	8671866	0	8757456	4	8840378	1359	8920607	4	8998117	9	52
9	8673314	8	8758860	3	8841737	8	8921921	3	8999386	8	51
10	8674762	7	8760263	2	8843095	7	8923234	2	9000654	7	50
11	8676209	6	8761665	2	8844452	7	8924546	2	9001921	6	49
12	8677655	5	8763067	1	8845809	6	8925858	1	9003187	6	48
13	8679100	4	8764468	1400	8847165	6	8927169	1310	9004453	5	47
14	8680544	4	8765868	0	8848521	5	8928479	0	9005718	4	46
15	8681988	3	8767268	1399	8849876	4	8929789	1309	9006982	3	45
16	8683431	3	8768667	8	8851230	3	8931098	8	9008245	3	44
17	8684874	2	8770065	7	8852583	3	8932406	8	9009508	2	43
18	8686316	1	8771462	7	8852936	2	8933714	7	9010770	1	42
19	8687757	1440	8772859	6	8855288	1	8935021	6	9012031	1	41
20	8689197	1439	8774255	5	8856639	1350	8936327	5	9013292	1260	40
21	8690636	8	8775650	4	8857989	1349	8937632	4	9014552	1259	39
22	8692074	8	8777044	3	8859338	9	8938936	4	9015811	8	38
23	8693512	7	8778437	3	8860687	8	8940240	3	9017069	7	37
24	8694949	7	8779830	2	8862035	8	8941543	2	9018326	8	36
25	8696386	6	8781222	1	8863383	7	8942845	1	9019584	6	35
26	8697822	5	8782613	1390	8864730	6	8944146	1300	9020838	5	34
27	8699257	4	8784003	0	8896076	5	8945446	0	9022093	4	33
28	8700691	3	8785393	1339	8867421	4	8946746	1299	9023347	3	32
29	8702124	3	8786782	9	8868765	3	8948045	9	9024600	3	31
30	8703557	2	8788171	8	8870108	3	8949344	8	9025853	2	30
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32	8706420	1	8790946	6	8872793	1	8951939	6	9028356	1250	28
33	8707851	1430	8792332	5	8874134	1	8953235	5	902'9606	0	27
34	8709281	1435	8793717	5	8875475	1340	8954530	4	9030856	1249	26
35	8710710	8	8795102	4	8876815	1339	8955824	3	9032105	8	25
36	8712138	7	8796486	3	8878154	8	8957117	3	9033353	7	24
37	8713565	7	8787869	2	8879492	8	8958410	2	9034600	7	23
38	8714992	6	8799251	2	8880830	7	8959702	2	9035847	6	22
39	8716418	6	8800633	1	8882167	6	8960994	1	9037093	5	21
40	8717844	5	8802014	1380	8883503	5	8962285	1290	9038338	4	20
41	8719269	4	8803394	1379	8884838	4	8963575	1280	9039582	3	19
42	8720693	3	8804773	8	8886172	4	8964864	8	9040825	3	18
43	8722116	2	8806152	8	8887506	3	8966152	8	9042068	2	17
44	8723538	2	8807530	7	8888839	.2	8967440	7	9043310	1	16
45	8724960	1	8808907	6	8890171	1	8968727	6	9044551	1240	15
46	8726381	1420	8810283	6	8891502	1	8969013	6	9045791	0	14
47	8727801	0	8811659	5	8892833	1330	8971299	5	9047031	1239	13
48	8729221	1419	8813034	4	8894163	1329	8972584	4	9048270	8	12
49	8730640	8	8814408	3	8895492	9	8973868	3	9049508	8	11
50	8732058	7	8815783	2	8896821	8	8975151	2	9050746	7	10
51	8733475	6	8817155	2	8898149	7	8976433	2	9051983	6	9
52	8734891	6	8818527	1	8899476	6	8977715	1	9053219	5	8
53	8736307	5	8819898	1370	8900802	5	8978996	1280	9054454	4	7
54	8737722	5	8821268	0	8902127	5	8980276	1279	9055688	4	6
55	8739137	4	8822638	1369	8903452	4	8981555		8956922	3	5
56	8730551	3	8824007		8904776	3	8982833		8958155	2	4
57	8741964	2	8825375		8906099	3	8984111	7	9059387	1	3
58	8743376	1	8826743		7890742	2	8985388		6906061	1230	2
59	8744787	1410	8828110	6	8908744		8986664		9061898	0	1
60	8746197	0	8829476	5	8910065	1320	8987940	5	9063078	1229	0
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CANON SVBTENSARVM

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1	9064307	1228	9136638	2	9206185	5	9272928	9	9336846	1	59
2	9065535	8	9137820	1	9207321	5	9274017	8	9337887	1	58
3	9066763	7	9139001	0	9208456	4	9275105	7	9338928	1040	57
4	9067990	6	9140181	1180	9209590	3	9276192	6	9339966	1039	56
5	9069216	5	9141361	1179	9210723	2	9277278	5	9341007	8	55
6	9070441	4	9142540	8	9211855	1	9278363	5	9342045	7	54
7	9071665	4	9143718	7	9212986		9279448	4	9343084	7	53
8	9072889	3	9144895	7	9214117	1130	9280532	3	9344119	6	52
9	9074112	2	9146072	6	9215247	1129	9281615	2	9345155	5	51
10	9075334	1	9147248	5	9216376	8	9282697	1	9346190	4	50
11	9076555	0	9148423	4	9217504	7	9283778	1	9347224	3	49
12	9077775	1220	9149597	3	9218631	7	9284859	1080	9348257	2	48
13	9078995	1219	9150770	3	9219758	6	9285939	1079	9349289	2	47
14	9080214	8	9151943	2	9220884	6	9287018	8	9350321	1	46
15	9081432	8	9153115	1	9222010	5	9288096	7	9351352	1030	45
16	9082649	7	9154286	1	9223135	4	9289173	7	9352382	1029	44
17	9083866	6	9155457	1170	9224259	3	9290250	6	9353411	9	43
18	9085082	5	9156627	1169	9225384	2	9291326	5	9354440	8	42
19	9086297	5	9157796	8	9226504	1	9292401	5	9355468	7	41
20	9087512	4	9158964	7	9227625	1	9293476	4	9356495	6	40
21	9088726	3	9160131	6	9228746	1120	9294550	3	9357521	5	39
22	9089939	2	9161297	6	9229866	1119	9295623	2	9358546	5	38
23	9091151	1	9162463	5	9230985	8	9296695	1	9359571	4	37
24	9092362	1210	9163628	4	9232103	7	9297766	1070	9360595	3	35
25	9093572	1209	9164792	3	9233220	7	9298836	1069	9361618	2	35
26	9094781	9	9165955	2	9234337	6	9299905	9	9362640	2	34
27	9095990	8	9167117	2	9235453	5	9300974	8	9363662	1	33
28	9097198	8	9168279	1	9236568	4	9302042	7	9364683	1020	32
29	9098406	7	9169440	1	9237682	3	9303109	7	9365703	1019	31
30	9099613	6	9170601	1160	9238795	3	9304176	6	9366722	8	30
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32	9102024	4	9172920	8	9241020	1	9306307	4	9368758	7	28
33	9103228	4	9174078	7	9242131	1	9307371	3	9369775	6	27
34	9104432	3	9175235	6	9243242	1110	9308434	3	9370791	5	26
35	9105635	2	9176391	6	9244352	1105	9309497	2	9371806	4	25
36	9106837	1	9177547	5	9245461	8	9310559	1	9372820	4	24
37	9108038	0	9178702	4	9246569	7	9311620	1060	9373834	3	23
38	9109238	1200	9179856	3	9247676	6	9312680	1059	9374847	2	22
39	9110438	1199	9181009	2	9248782	6	9313739	9	9375859	1	21
40	9111637	8	9182161	2	9249883	5	9314795	8	9376870	1010	20
41	9112835	7	9183313	1	9250983	4	9315856	7	9377880	1009	19
42	9114032	7	9184464	1150	9252097	3	9316913	6	9378889	9	18
43	9115229	6	9185614	1149	9253200	3	9317969	5	9379898	8	17
44	9116425	5	9186763	9	9254303	2	9319024	5	9380906	9	16
45	9117620	4	9187912	8	9255405	1	9320079	4	9381913	6	15
46	9118814	3	9189060	7	9256506	0	9321133	3	9382919	6	14
47	9120007	3	9190207	6	9257606	1100	9322186	2	9383925	5	13
48	9121200	2	9191353	6	9258706	1099	9323238	2	9384930	4	12
49	9122392	2	9192499	5	9259805	8	9324290	1	9385934	3	11
50	9123584	1	9193644	4	9260903	7	9325341	1050	9386937	2	10
51	9124775	1190	9194788	3	9262000	6	9326391	1049	9387939	2	9
52	9125965	1189	9195931	2	9263096	6	9327440	8	9388941	1	8
53	9127154	8	9197073	2	9264192	5	9328488	7	9389942	1000	7
54	9128342	7	9198215	1	9265287	4	9329535	7	9390942	999	6
55	9129529	7	9199356	1140	9266381	3	9330582	6	9391941	9	5
56	9130716	8	9200496	1139	9267474	2	9331628	5	9392940	8	4
57	9131902	5	9201635	9	9268566	2	9332673	4	9393938	7	3
58	9133087	4	9202774	8	9269658	1	9333717	4	9394935	6	2
59	9134271	4	9203912	8	9270749	1090	9334761	3	9395931	5	1
60	9135455	3	9205040	5	9271839	1089	9335804	2	9396926	7	0
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2	9398915	3	9457079	5	9512362	7	9564747	9	9614219	800	58
3	9399908	2	9458024	4	9513259	6	9565595	8	9615019	799	57
4	9400900	1	9458968	3	9514155	5	9566441	7	9615818	8	56
5	9401891	1	9459911	3	9515050	4	9567291	6	9616616	7	55
6	9402882	990	9460854	2	9515944	4	9568137	5	9617413	6	54
7	9403872	989	9461796	1	9516838	3	9568982	4	9618209	6	51
8	9404861	8	9462737	940	9517731	2	9569826	4	9619003	5	52
9	9405849	7	9463677	939	9518623	1	9570670	3	9619800	4	51
10	9406836	6	9464616	9	9519514	0	9571513	2	9620594	3	50
11	9407822	6	9465555	8	9520404	890	9572355	1	9621387	2	49
12	9408808	5	9466493	7	9521294	889	9573196	840	9622179	2	48
13	9409793	4	9467430	6	9522183	8	9574036	839	9622971	1	47
14	9410777	3	9468366	5	9523071	7	9574875	9	9623762	790	46
15	9411760	2	9469301	5	9523958	6	9575714	8	9624552	789	45
16	9412742	2	9470236	4	9524844	6	9576552	7	9625341	8	44
17	9413724	1	9471170	3	9525730	5	9577389	6	9626129	8	43
18	9414705	0	9472103	2	9526615	4	9578225	6	9626917	7	42
19	9415685	980	9473035	2	9527499	3	9579061	5	9627704	6	41
20	9416665	979	9473967	1	9528382	2	9579898	4	9628490	5	40
21	9417644	8	9474898	930	9529264	2	9580730	3	9629275	4	39
22	9418622	7	9475828	929	9530146	1	9581563	2	9630059	4	38
23	9419599	9	9476757	8	9531027	880	9582395	1	9630843	3	37
24	9420575	5	9477685	7	9531907	879	9583226	1	9631626	2	36
25	9421550	5	9478612	7	9532786	8	9584057	830	9632408	1	35
26	9422525	4	9479539	6	9533664	7	9584887	829	9633189	780	34
27	9423499	3	9480465	5	9534541	7	9585716	8	9633969	779	33
28	9424472	2	9481390	4	9535418	6	9586544	7	9634748	9	32
29	9425444	1	9482314	3	9536294	5	9587371	6	9635527	8	31
30	9426415	1	9483237	3	9537169	4	9588197	6	9636305	7	30
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31	94273860	970	94841600	2	95380433	4	95890233	5	96370822	6	29
32	94283566	969	94850822	1	95389177	3	95898483	4	96378584	5	28
33	94293252	8	94860037	920	95397900	2	95906732	3	96386331	5	27
34	94302933	7	94869233	919	95406622	1	95914982	3	96394083	4	26
35	94312607	7	94878423	9	95414333	870	95923231	2	96401824	3	25
36	94322277	6	94887613	8	95422033	869	95931480	1	96409555	2	24
37	94331933	5	94896793	7	95432722	9	95939613	820	96417277	1	23
38	94341588	4	94905963	6	95441411	8	95947781	819	96424988	0	22
39	94351232	3	94915122	5	95450099	7	95955600	9	96432688	770	21
40	94360865	3	94924277	4	95458766	6	95964195	8	96440378	769	20
41	94370488	2	94933421	4	95467422	5	95972373	7	96448057	8	19
42	94380100	1	94942555	3	95476067	5	95980542	6	96455725	7	18
43	94389701	960	94951678	2	95484702	4	95988700	5	96463382	6	17
44	94399291	959	94960780	1	95493326	3	95996848	4	96471028	5	16
45	94408870	9	94969871	1	95501939	2	96004986	4	96478663	5	15
46	94418439	8	94978952	910	95510541	1	96013113	3	96486288	4	14
47	94427997	7	94988012	909	95519122	1	96021226	2	96493902	3	13
48	94437544	7	94997061	8	95527683	860	96029328	1	96501505	2	12
49	94447080	6	95006029	7	95536243	859	96037419	810	96509097	2	11
50	94456605	5	95015036	7	95544782	8	96045499	809	96516678	1	10
51	94466121	4	95024033	6	95553300	7	96053568	9	96524250	760	9
52	94475585	3	95033019	5	95561797	7	96061627	8	96531810	759	8
53	94485038	2	95041994	4	95570274	6	96069675	7	96539369	8	7
54	94494480	1	95050958	3	95578730	5	96077712	6	96546917	7	6
55	94503911	1	95059911	2	95587185	4	96085738	5	96554454	6	5
56	94513332	950	95068853	2	95595619	3	96093753	5	96561980	6	4
57	94522742	949	95077785	1	95604042	3	96101758	4	96569496	5	3
58	94532141	8	95086706	903	95612454	2	96109752	3	96577001	4	2
59	94541529	7	95095616	899	95621857	1	96117735	2	96584505	3	1
60	94550906	7	95104516	9	95630248	850	96125707	1	96592000	3	0
	19		18		17		16		15		

CANON SVBTENSARVM

	75		76		77		78		79		
1	9660011	2	9703660	3	9744355	3	9782080	4	9816827	4	58
2	9660763	1	9704363	2	9745008	2	9782684	3	9817381	3	58
3	9661514	750	9705065	1	9745660	2	9783287	2	9817934	2	57
4	9662264	749	9705766	700	9746312	1	9783889	1	9818486	1	56
5	9663013	8	9706466	699	9746963	650	9784490	600	9819037	550	55
6	9663761	7	9707165	8	9747613	649	9785090	599	9819587	0	54
7	9664508	7	9707863	8	9748262	8	9785689	9	9820137	549	53
8	9665255	6	9708561	7	9748910	7	9786288	8	9820686	8	52
9	9666001	5	9709258	6	9749557	6	9786886	7	9821234	7	51
10	9666746	4	9709954	5	9750203	6	9787483	6	9821781	6	50
11	9667490	3	9710649	4	9750849	5	9788079	5	9822327	5	49
12	9668233	3	9711343	3	9751494	4	9788674	4	9822872	5	48
13	9668976	2	9712036	3	9752138	3	9789268	4	9823417	4	47
14	9669718	1	9712729	2	9752781	2	9789862	3	9823961	3	46
15	9670459	740	9713421	1	9753423	2	9790455	2	9824504	2	45
16	9671199	739	9714112	650	9754065	1	9791047	1	9825046	1	44
17	9671938	9	9714802	649	9754706	640	9791638	0	9825587	1	43
18	9672677	8	9715491	9	9755346	639	9792228	590	9826128	549	42
19	9673415	7	9716180	8	9755985	8	9792818	589	9826668	539	41
20	9674152	6	9716868	7	9756623	7	9793407	8	9827207	8	40
21	9674888	5	9717555	6	9757260	7	9793995	7	9827745	7	39
22	9675623	4	9718241	5	9757897	6	9794582	6	9828282	6	38
23	9676357	4	9718926	4	9758533	5	9795168	5	9828818	6	37
24	9677091	3	9719610	4	9759168	4	9795753	4	9829354	5	36
25	9677824	2	9720294	3	9759802	3	9796337	4	9829889	4	35
26	9678556	1	9720977	2	9760435	2	9796921	3	9830423	3	34
27	9679287	730	9721659	1	9761067	2	9797504	2	9830956	2	33
28	9680017	0	9722340	680	9761699	1	9798086	1	9831488	1	32
29	9680747	729	9723020	679	9762330	630	9798667	0	9832019	0	31
30	9681476	8	9723699	9	9762960	629	9799247	580	9832540	530	30
	14		13		12		11		10		

	75		76		77	78		79		
31	9683204	7	9724378	8	9763589	8 9799827	57	9833079	529	29
32	9683931	6	9725056	7	9764217	8 9800406	8	9833608	8	28
33	9683657	6	9725733	6	9764845	7 9800984	7	9834136	7	27
34	9684383	5	9726402	6	9765472	6 9801561	6	9834663	6	26
35	9685108	4	9727085	5	9766098	5 9802137	5	9835189	5	25
36	9685832	3	9727760	4	9766723	4 9802712	5	9835714	5	24
37	9686555	2	9728434	3	9767347	3 9803287	4	9836239	4	23
38	9687277	1	9729107	2	9767970	3 9803861	3	9836763	3	22
39	9687998	1	9729779	1	9768593	2 9804434	2	9837286	2	21
40	9688719	720	9730450	670	9769215	1 9805006	1	9837808	1	20
41	9689439	719	9731120	669	9769836	620 9805577	570	9838329	1	19
42	9690158	8	9731789	9	9770456	619 9806147	569	9838850	520	18
43	9690876	7	9732458	8	9771075	8 9806716	9	9839370	519	17
44	9691593	6	9733126	7	9771693	8 9807285	8	9839889	8	16
45	9692309	6	9733793	6	9772311	7 9807853	7	9840407	7	15
46	9693025	5	9734459	5	9772928	6 9808420	6	9840924	6	14
47	9693740	4	9735124	5	9773544	5 9808986	5	9841440	6	13
48	9694454	3	9735789	4	9774159	4 9809551	5	9841956	5	12
49	9695167	2	9736453	3	9774773	4 9810116	4	9842471	4	11
50	9695879	1	9737116	2	9775387	3 9810680	3	9842985	3	10
51	9696590	1	9737778	1	9776000	2 9811243	2	9843498	2	9
52	9697301	710	9738439	660	9776612	1 9811805	1	9844010	1	8
53	9698011	709	9739099	0	9777223	610 9812366	0	9844521		7
54	9698720	8	9739759	659	9777833	609 9812926	560	9845032	510	6
55	9699428	7	9740418	8	9778442	8 9813486	559	9845542	509	5
56	9700135	7	9741076	7	9779050	8 9814045	8	9846051	8	4
57	9700842	6	9741733	6	9779658	7 9814603	7	9846559	7	3
58	9701548	5	9742389	6	9780265	6 9815160	6	9847066	6	2
59	9702253	4	9743045	5	9780871	5 9815716	6	9847572	6	1
60	9702957	3	9743700	5	9781476	4 9816272	5	9848078	5	0
	14		13		12	11		10		

CANON SVBTENSARVM

	80		81		82		83		84		
1	9848583	4	9877338	4	9903085	4	9925816	3	9945523	3	59
2	9849087	3	9877792	3	9903489	3	9926169	2	9945826	2	58
3	9849590	2	9878245	2	9903893	2	9926521	2	9946128	1	57
4	9850092	1	9878697	1	9904294	1	9926873	1	9946429	300	56
5	9850593	0	9879148	0	9904695	400	9927224	350	9946729	299	55
6	9851093	500	9879598	450	9905093	399	9927574	349	9947028	9	54
7	9851593	499	9880048	449	9905494	9	9927923	8	9947327	6	53
8	9852092	8	9880497	8	9905893	8	9928271	7	9947625	8	52
9	9852590	7	9880945	7	9906291	7	9928618	7	9947922	7	51
10	9853087	6	9881392	6	9906688	6	9928965	6	9948218	5	50
11	9853583	6	9881838	5	9907084	5	9929311	5	9948513	4	49
12	9854079	5	9882283	5	9907479	4	9929656	4	9948807	3	48
13	9854574	4	9882728	4	9907873	3	9930000	3	9949100	3	47
14	9855068	3	9883172	3	9908266	3	9930343	2	9949393	2	46
15	9855561	2	9883615	2	9908659	2	9930685	1	9949685	1	45
16	9856053	1	9884057	1	9909051	1	9931028	1	9949976	290	44
17	9856544	1	9884498	0	9909442	390	9931367	340	9950266	289	43
18	9857035	490	9884938	440	9909832	389	9931707	339	9950555	9	42
19	9857525	489	9885378	439	9910221	9	9932046	8	9950844	8	41
20	9858014	8	9885817	8	9910610	8	9932384	7	9951132	7	40
21	9858502	7	9886255	7	9910998	7	9932721	6	9951419	6	39
22	9858989	6	9886692	6	9911385	6	9933057	6	9951705	5	38
23	9859475	6	9887128	6	9911771	5	9933393	5	9951990	4	37
24	9859961	5	9887564	5	9912156	4	9933728	4	9952274	3	36
25	9860446	4	9887999	4	9912540	3	9934062	3	9952557	3	35
26	9860930	3	9888433	3	9912923	3	9934395	2	9952840	2	34
27	9861413	2	9888866	2	9913306	2	9934727	1	9953122	1	33
28	9861895	1	9889298	1	9913688	1	9935058	1	9953403	280	32
29	9862376	0	9889729	430	9914069	580	9935389	330	9953683	279	31
30	9862856	480	9890159	429	9914449	379	9935719	329	9953962	8	30
	9		8		7		6		5		

	80		81		82		83		84		
31	9863336	479	9890588	9	9914828	9	9936048	8	9954240	8	29
32	9863815	8	9891017	8	9915206	8	9936376	7	9954518	7	28
33	9864293	7	9891445	7	9915584	7	9936703	6	9954795	6	27
34	9864770	6	9891872	6	9915961	6	9937029	6	9955071	5	26
35	9865246	6	9892298	5	9916337	5	9937355	5	9955346	4	25
36	9865722	5	9892723	4	9916712	4	9937680	4	9955620	3	24
37	9866197	4	9893147	4	9917086	3	9938004	3	9955893	2	23
38	9866671	3	9893571	3	9917459	3	9938327	2	9956165	2	22
39	9867144	2	9893994	2	9917832	2	9938649	1	9956437	1	21
40	9867616	1	9894416	1	9918204	1	9938970	320	9956708	270	20
41	9868087	0	9894837	0	9918575	370	9939290	319	9956978	269	19
42	9868557	470	9895257	420	9918945	369	9939609	9	9957247	8	18
43	9869027	469	9895677	419	9919314	8	9939928	8	9957515	7	17
44	9869496	8	9896096	8	9919682	7	9940246	7	9957782	7	16
45	9869964	7	9896514	7	9920049	7	9940563	6	9958049	6	15
46	9870431	6	9896931	6	9920416	6	9940879	5	9958315	5	14
47	9870897	5	9897347	5	9920782	5	9941194	5	9958580	4	13
48	9871362	5	9897762	5	9921147	4	9941509	4	9958844	3	12
49	9871827	4	9898177	4	9921511	3	9941823	3	9959107	3	11
50	9872291	3	9898591	3	9921874	2	9942136	2	9959370	2	10
51	9872754	2	9899004	2	9922236	2	9942448	1	9959632	1	9
52	9873216	1	9899416	1	9922598	1	9942759	310	9959893	260	8
53	9873677	0	9899827	410	9922959	360	9943069	0	9960153	259	7
54	9874137	460	9900237	409	9923319	359	9943379	309	9960412	8	6
55	9874597	459	9900646	9	9923678	8	9943688	8	9960670	7	5
56	9875056	8	9901053	8	9924036	7	9943996	7	9960927	6	4
57	9875514	7	9901463	7	9924393	7	9944303	6	9961183	5	3
58	9875971	6	9901870	6	9924750	6	9944609	5	9961438	5	2
59	9876427	6	9902276	5	9925106	5	9944914	5	9961693	4	1
60	9876883	5	9902681	4	9925461	5	9945219	4	9961947	3	0
	9		8		7		6		5		

85		86		87		88		89			
1	9962200	2	9975843	2	9986447	1	9994009	100	9998527	49	59
2	9962452	1	9976045	1	9986598	150	9994109	99	9998576	9	58
3	9962703	1	9976246	200	9986748	149	9994208	9	9998625	8	57
4	9962954	250	9976449	199	9986897	8	9994307	8	9998673	17	56
5	9963204	249	9976645	8	9987045	8	9994405	7	9998720	6	55
6	9963453	8	9976843	7	9987193	7	9994502	6	9998766	5	54
7	9963701	7	9977040	7	9987340	6	9994598	5	9998811	4	53
8	9963948	6	9977237	6	9987486	5	9994693	4	9998855	4	52
9	9964194	6	9977433	5	9987631	4	9994787	4	9998899	3	51
10	9964440	5	9977628	4	9987775	3	9994881	3	9998942	2	50
11	9964685	4	9977822	3	9987918	3	9994974	2	9998984	1	49
12	9964929	3	9978015	2	9988061	2	9995066	1	9999025	40	48
13	9965172	2	9978207	1	9988203	1	9995157	90	9999065	39	47
14	9965414	1	9978398	1	9988344	140	9995247	89	9999104	9	46
15	9965655	0	9978589	190	9988484	139	9995336	8	9999143	8	45
16	9965895	240	9978779	189	9988623	8	9995424	8	9999181	7	44
17	9966135	239	9978968	8	9988761	8	9995512	7	9999218	6	43
18	9966374	8	9979156	7	9988899	7	9995599	6	9999254	5	42
19	9966612	7	9979343	7	9989036	6	9995685	5	9999289	4	41
20	9966849	6	9979530	6	9989172	5	9995770	4	9999323	3	40
21	9967085	5	9979716	5	9989307	4	9995854	3	9999356	3	39
22	9967320	5	9979901	4	9989441	3	9995937	2	9999389	2	38
23	9967555	4	9980085	3	9989574	2	9996019	2	9999421	1	37
24	9967789	3	9980268	2	9989706	1	9996101	1	9999452	30	36
25	9968022	2	9980450	1	9989837	1	9996182	80	9999482	29	35
26	9968254	1	9980631	180	9989968	130	9996262	79	9999511	8	34
77	9968485	230	9980811	0	9990098	129	9996341	8	9999539	7	33
28	9968715	229	9980991	179	9990227	8	9996419	7	9999566	7	32
29	9968944	9	9981170	8	9990355	7	9996496	7	9999593	6	31
30	9969173	8	9981348	7	9990482	6	9996573	6	9999619	5	30
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	85		86		87		88		89		
31	9969401	7	9981525	6	9991[illegible]	5	9996649	5	9999644	4	29
32	9969628	6	9981701	6	9991[illegible]	5	9996724	4	9999668	3	28
33	9969854	5	9981877	5	9990859	4	9996798	3	9999691	2	27
34	9970079	5	9982052	4	9990983	3	9996871	2	9999713	2	26
35	9970304	4	9982226	3	9991106	2	9996943	1	9999735	1	25
35	9970528	3	9982399	2	9991228	1	9997014	1	9999756	20	24
37	9970751	2	9982571	1	9991349	1	9997085	70	9999776	19	23
38	9970973	1	9982742	0	9991470	123	9997155	69	9999795	8	22
39	9971194	220	9982912	170	9991590	0	9997224	8	9999813	7	21
40	9971414	219	9983082	169	9991770	119	9997292	7	9999830	6	20
41	9971633	8	9983251	8	9991827	8	9997359	6	9999846	6	19
42	9971851	8	9983419	7	9991944	6	9997425	6	9999862	5	18
43	9972096	7	9983586	6	9992060	5	9997491	5	9999877	4	17
44	9972286	6	9983752	5	9992175	5	9997556	4	9999891	3	16
45	9972502	5	9983917	4	9992290	4	9997620	3	9999904	1	15
46	9972717	4	9984081	4	9992404	3	9997683	2	9999916	1	14
47	9972931	4	9984245	3	9992517	2	9997745	1	9999927	1	13
48	9973145	3	9984408	2	9992629	1	9997806	1	9999938	10	12
49	9973358	2	9984570	1	9992740	110	9997867	60	9999948	9	11
50	9973570	1	9984731	160	9992850	0	9997927	59	9999957	8	10
51	9973781	210	9984891	159	9992960	102	9997986	8	9999965	7	9
52	9973991	209	9985050	9	9993069	8	9998044	7	9999972	6	8
53	9974200	8	9985209	8	9993177	7	9998101	6	9999978	6	7
54	9974408	7	9985367	7	9993284	6	9998157	5	9999984	5	6
55	9974615	7	9985524	6	9993390	5	9998212	5	9999989	4	5
56	9974822	6	9985680	5	9993495	4	9998267	4	9999993	3	4
57	9975028	5	9985835	4	9993599	4	9998321	3	9999996	2	3
58	9975233	4	9985989	4	9993703	3	9998374	2	9999998	1	2
59	9975437	3	9986143	2	9993806	2	9998426	1	9999999	1	1
60	9975640	3	9986295	2	9993908	1	9998477	50	10000000	0	0
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FINIS.