The number of digits in first big integer = 5

first and second are equal!

third is smaller than fourth!

fifth is larger than fourth!

first = 12345

second = 12345

third = 10000

fourth = 100000

fifth = 10000000

After incrementing the value of first is : 12346

Sum of fourth and fifth = 10100000

Product of second and third = 123450000

-------------------------Fibonacci------------------------------

Fibonacci 0 = 0

Fibonacci 1 = 1

Fibonacci 2 = 1

Fibonacci 3 = 2

Fibonacci 4 = 3

Fibonacci 5 = 5

Fibonacci 6 = 8

Fibonacci 7 = 13

Fibonacci 8 = 21

Fibonacci 9 = 34

Fibonacci 10 = 55

Fibonacci 11 = 89

Fibonacci 12 = 144

Fibonacci 13 = 233

Fibonacci 14 = 377

Fibonacci 15 = 610

Fibonacci 16 = 987

Fibonacci 17 = 1597

Fibonacci 18 = 2584

Fibonacci 19 = 4181

Fibonacci 20 = 6765

Fibonacci 21 = 10946

Fibonacci 22 = 17711

Fibonacci 23 = 28657

Fibonacci 24 = 46368

Fibonacci 25 = 75025

Fibonacci 26 = 121393

Fibonacci 27 = 196418

Fibonacci 28 = 317811

Fibonacci 29 = 514229

Fibonacci 30 = 832040

Fibonacci 31 = 1346269

Fibonacci 32 = 2178309

Fibonacci 33 = 3524578

Fibonacci 34 = 5702887

Fibonacci 35 = 9227465

Fibonacci 36 = 14930352

Fibonacci 37 = 24157817

Fibonacci 38 = 39088169

Fibonacci 39 = 63245986

Fibonacci 40 = 102334155

Fibonacci 41 = 165580141

Fibonacci 42 = 267914296

Fibonacci 43 = 433494437

Fibonacci 44 = 701408733

Fibonacci 45 = 1134903170

Fibonacci 46 = 1836311903

Fibonacci 47 = 2971215073

Fibonacci 48 = 4807526976

Fibonacci 49 = 7778742049

Fibonacci 50 = 12586269025

Fibonacci 51 = 20365011074

Fibonacci 52 = 32951280099

Fibonacci 53 = 53316291173

Fibonacci 54 = 86267571272

Fibonacci 55 = 139583862445

Fibonacci 56 = 225851433717

Fibonacci 57 = 365435296162

Fibonacci 58 = 591286729879

Fibonacci 59 = 956722026041

Fibonacci 60 = 1548008755920

Fibonacci 61 = 2504730781961

Fibonacci 62 = 4052739537881

Fibonacci 63 = 6557470319842

Fibonacci 64 = 10610209857723

Fibonacci 65 = 17167680177565

Fibonacci 66 = 27777890035288

Fibonacci 67 = 44945570212853

Fibonacci 68 = 72723460248141

Fibonacci 69 = 117669030460994

Fibonacci 70 = 190392490709135

Fibonacci 71 = 308061521170129

Fibonacci 72 = 498454011879264

Fibonacci 73 = 806515533049393

Fibonacci 74 = 1304969544928657

Fibonacci 75 = 2111485077978050

Fibonacci 76 = 3416454622906707

Fibonacci 77 = 5527939700884757

Fibonacci 78 = 8944394323791464

Fibonacci 79 = 14472334024676221

Fibonacci 80 = 23416728348467685

Fibonacci 81 = 37889062373143906

Fibonacci 82 = 61305790721611591

Fibonacci 83 = 99194853094755497

Fibonacci 84 = 160500643816367088

Fibonacci 85 = 259695496911122585

Fibonacci 86 = 420196140727489673

Fibonacci 87 = 679891637638612258

Fibonacci 88 = 1100087778366101931

Fibonacci 89 = 1779979416004714189

Fibonacci 90 = 2880067194370816120

Fibonacci 91 = 4660046610375530309

Fibonacci 92 = 7540113804746346429

Fibonacci 93 = 12200160415121876738

Fibonacci 94 = 19740274219868223167

Fibonacci 95 = 31940434634990099905

Fibonacci 96 = 51680708854858323072

Fibonacci 97 = 83621143489848422977

Fibonacci 98 = 135301852344706746049

Fibonacci 99 = 218922995834555169026

Fibonacci 100 = 354224848179261915075

-------------------------Catalan------------------------------

Catalan 0 = 1

Catalan 1 = 1

Catalan 2 = 2

Catalan 3 = 5

Catalan 4 = 14

Catalan 5 = 42

Catalan 6 = 132

Catalan 7 = 429

Catalan 8 = 1430

Catalan 9 = 4862

Catalan 10 = 16796

Catalan 11 = 58786

Catalan 12 = 208012

Catalan 13 = 742900

Catalan 14 = 2674440

Catalan 15 = 9694845

Catalan 16 = 35357670

Catalan 17 = 129644790

Catalan 18 = 477638700

Catalan 19 = 1767263190

Catalan 20 = 6564120420

Catalan 21 = 24466267020

Catalan 22 = 91482563640

Catalan 23 = 343059613650

Catalan 24 = 1289904147324

Catalan 25 = 4861946401452

Catalan 26 = 18367353072152

Catalan 27 = 69533550916004

Catalan 28 = 263747951750360

Catalan 29 = 1002242216651368

Catalan 30 = 3814986502092304

Catalan 31 = 14544636039226909

Catalan 32 = 55534064877048198

Catalan 33 = 212336130412243110

Catalan 34 = 812944042149730764

Catalan 35 = 3116285494907301262

Catalan 36 = 11959798385860453492

Catalan 37 = 45950804324621742364

Catalan 38 = 176733862787006701400

Catalan 39 = 680425371729975800390

Catalan 40 = 2622127042276492108820

Catalan 41 = 10113918591637898134020

Catalan 42 = 39044429911904443959240

Catalan 43 = 150853479205085351660700

Catalan 44 = 583300119592996693088040

Catalan 45 = 2257117854077248073253720

Catalan 46 = 8740328711533173390046320

Catalan 47 = 33868773757191046886429490

Catalan 48 = 131327898242169365477991900

Catalan 49 = 509552245179617138054608572

Catalan 50 = 1978261657756160653623774456

Catalan 51 = 7684785670514316385230816156

Catalan 52 = 29869166945772625950142417512

Catalan 53 = 116157871455782434250553845880

Catalan 54 = 451959718027953471447609509424

Catalan 55 = 1759414616608818870992479875972

Catalan 56 = 6852456927844873497549658464312

Catalan 57 = 26700952856774851904245220912664

Catalan 58 = 104088460289122304033498318812080

Catalan 59 = 405944995127576985730643443367112

Catalan 60 = 1583850964596120042686772779038896

Catalan 61 = 6182127958584855650487080847216336

Catalan 62 = 24139737743045626825711458546273312

Catalan 63 = 94295850558771979787935384946380125

Catalan 64 = 368479169875816659479009042713546950

Catalan 65 = 1440418573150919668872489894243865350

Catalan 66 = 5632681584560312734993915705849145100

Catalan 67 = 22033725021956517463358552614056949950

Catalan 68 = 86218923998960285726185640663701108500

Catalan 69 = 337485502510215975556783793455058624700

Catalan 70 = 1321422108420282270489942177190229544600

Catalan 71 = 5175569924646105559418940193995065716350

Catalan 72 = 20276890389709399862928998568254641025700

Catalan 73 = 79463489365077377841208237632349268884500

Catalan 74 = 311496878311103321137536291518809134027240

Catalan 75 = 1221395654430378811828760722007962130791020

Catalan 76 = 4790408930363303911328386208394864461024520

Catalan 77 = 18793142726809884575211361279087545193250040

Catalan 78 = 73745243611532458459690151854647329239335600

Catalan 79 = 289450081175264899454283846029490767264392230

Catalan 80 = 1136359577947336271931632877004667456667613940

Catalan 81 = 4462290049988320482463241297506133183499654740

Catalan 82 = 17526585015616776834735140517915655636396234280

Catalan 83 = 68854441132780194707888052034668647142985206100

Catalan 84 = 270557451039395118028642463289168566420671280440

Catalan 85 = 1063353702922273835973036658043476458723103404520

Catalan 86 = 4180080073556524734514695828170907458428751314320

Catalan 87 = 16435314834665426797069144960762886143367590394940

Catalan 88 = 64633260585762914370496637486146181462681535261000

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Catalan 96 = 3721443204405954385563870541379246659709506697378694300

Catalan 97 = 14657929356129575437016877846657032761712954950899755100

Catalan 98 = 57743358069601357782187700608042856334020731624756611000

Catalan 99 = 227508830794229349661819540395688853956041682601541047340

Catalan 100 = 896519947090131496687170070074100632420837521538745909320

-------------------------Factorial------------------------------

Factorial of 0 = 1

Factorial of 1 = 1

Factorial of 2 = 2

Factorial of 3 = 6

Factorial of 4 = 24

Factorial of 5 = 120

Factorial of 6 = 720

Factorial of 7 = 5040

Factorial of 8 = 40320

Factorial of 9 = 362880

Factorial of 10 = 3628800

Factorial of 11 = 39916800

Factorial of 12 = 479001600

Factorial of 13 = 6227020800

Factorial of 14 = 87178291200

Factorial of 15 = 1307674368000

Factorial of 16 = 20922789888000

Factorial of 17 = 355687428096000

Factorial of 18 = 6402373705728000

Factorial of 19 = 121645100408832000

Factorial of 20 = 2432902008176640000

Factorial of 21 = 51090942171709440000

Factorial of 22 = 1124000727777607680000

Factorial of 23 = 25852016738884976640000

Factorial of 24 = 620448401733239439360000

Factorial of 25 = 15511210043330985984000000

Factorial of 26 = 403291461126605635584000000

Factorial of 27 = 10888869450418352160768000000

Factorial of 28 = 304888344611713860501504000000

Factorial of 29 = 8841761993739701954543616000000

Factorial of 30 = 265252859812191058636308480000000

Factorial of 31 = 8222838654177922817725562880000000

Factorial of 32 = 263130836933693530167218012160000000

Factorial of 33 = 8683317618811886495518194401280000000

Factorial of 34 = 295232799039604140847618609643520000000

Factorial of 35 = 10333147966386144929666651337523200000000

Factorial of 36 = 371993326789901217467999448150835200000000

Factorial of 37 = 13763753091226345046315979581580902400000000

Factorial of 38 = 523022617466601111760007224100074291200000000

Factorial of 39 = 20397882081197443358640281739902897356800000000

Factorial of 40 = 815915283247897734345611269596115894272000000000

Factorial of 41 = 33452526613163807108170062053440751665152000000000

Factorial of 42 = 1405006117752879898543142606244511569936384000000000

Factorial of 43 = 60415263063373835637355132068513997507264512000000000

Factorial of 44 = 2658271574788448768043625811014615890319638528000000000

Factorial of 45 = 119622220865480194561963161495657715064383733760000000000

Factorial of 46 = 5502622159812088949850305428800254892961651752960000000000

Factorial of 47 = 258623241511168180642964355153611979969197632389120000000000

Factorial of 48 = 12413915592536072670862289047373375038521486354677760000000000

Factorial of 49 = 608281864034267560872252163321295376887552831379210240000000000

Factorial of 50 = 30414093201713378043612608166064768844377641568960512000000000000

Factorial of 51 = 1551118753287382280224243016469303211063259720016986112000000000000

Factorial of 52 = 80658175170943878571660636856403766975289505440883277824000000000000

Factorial of 53 = 4274883284060025564298013753389399649690343788366813724672000000000000

Factorial of 54 = 230843697339241380472092742683027581083278564571807941132288000000000000

Factorial of 55 = 12696403353658275925965100847566516959580321051449436762275840000000000000

Factorial of 56 = 710998587804863451854045647463724949736497978881168458687447040000000000000

Factorial of 57 = 40526919504877216755680601905432322134980384796226602145184481280000000000000

Factorial of 58 = 2350561331282878571829474910515074683828862318181142924420699914240000000000000

Factorial of 59 = 138683118545689835737939019720389406345902876772687432540821294940160000000000000

Factorial of 60 = 8320987112741390144276341183223364380754172606361245952449277696409600000000000000

Factorial of 61 = 507580213877224798800856812176625227226004528988036003099405939480985600000000000000

Factorial of 62 = 31469973260387937525653122354950764088012280797258232192163168247821107200000000000000

Factorial of 63 = 1982608315404440064116146708361898137544773690227268628106279599612729753600000000000000

Factorial of 64 = 126886932185884164103433389335161480802865516174545192198801894375214704230400000000000000

Factorial of 65 = 8247650592082470666723170306785496252186258551345437492922123134388955774976000000000000000

Factorial of 66 = 544344939077443064003729240247842752644293064388798874532860126869671081148416000000000000000

Factorial of 67 = 36471110918188685288249859096605464427167635314049524593701628500267962436943872000000000000000

Factorial of 68 = 2480035542436830599600990418569171581047399201355367672371710738018221445712183296000000000000000

Factorial of 69 = 171122452428141311372468338881272839092270544893520369393648040923257279754140647424000000000000000

Factorial of 70 = 11978571669969891796072783721689098736458938142546425857555362864628009582789845319680000000000000000

Factorial of 71 = 850478588567862317521167644239926010288584608120796235886430763388588680378079017697280000000000000000

Factorial of 72 = 61234458376886086861524070385274672740778091784697328983823014963978384987221689274204160000000000000000

Factorial of 73 = 4470115461512684340891257138125051110076800700282905015819080092370422104067183317016903680000000000000000

Factorial of 74 = 330788544151938641225953028221253782145683251820934971170611926835411235700971565459250872320000000000000000

Factorial of 75 = 24809140811395398091946477116594033660926243886570122837795894512655842677572867409443815424000000000000000000

Factorial of 76 = 1885494701666050254987932260861146558230394535379329335672487982961844043495537923117729972224000000000000000000

Factorial of 77 = 145183092028285869634070784086308284983740379224208358846781574688061991349156420080065207861248000000000000000000

Factorial of 78 = 11324281178206297831457521158732046228731749579488251990048962825668835325234200766245086213177344000000000000000000

Factorial of 79 = 894618213078297528685144171539831652069808216779571907213868063227837990693501860533361810841010176000000000000000000

Factorial of 80 = 71569457046263802294811533723186532165584657342365752577109445058227039255480148842668944867280814080000000000000000000

Factorial of 81 = 5797126020747367985879734231578109105412357244731625958745865049716390179693892056256184534249745940480000000000000000000

Factorial of 82 = 475364333701284174842138206989404946643813294067993328617160934076743994734899148613007131808479167119360000000000000000000

Factorial of 83 = 39455239697206586511897471180120610571436503407643446275224357528369751562996629334879591940103770870906880000000000000000000

Factorial of 84 = 3314240134565353266999387579130131288000666286242049487118846032383059131291716864129885722968716753156177920000000000000000000

Factorial of 85 = 281710411438055027694947944226061159480056634330574206405101912752560026159795933451040286452340924018275123200000000000000000000

Factorial of 86 = 24227095383672732381765523203441259715284870552429381750838764496720162249742450276789464634901319465571660595200000000000000000000

Factorial of 87 = 2107757298379527717213600518699389595229783738061356212322972511214654115727593174080683423236414793504734471782400000000000000000000

Factorial of 88 = 185482642257398439114796845645546284380220968949399346684421580986889562184028199319100141244804501828416633516851200000000000000000000

Factorial of 89 = 16507955160908461081216919262453619309839666236496541854913520707833171034378509739399912570787600662729080382999756800000000000000000000

Factorial of 90 = 1485715964481761497309522733620825737885569961284688766942216863704985393094065876545992131370884059645617234469978112000000000000000000000

Factorial of 91 = 135200152767840296255166568759495142147586866476906677791741734597153670771559994765685283954750449427751168336768008192000000000000000000000

Factorial of 92 = 12438414054641307255475324325873553077577991715875414356840239582938137710983519518443046123837041347353107486982656753664000000000000000000000

Factorial of 93 = 1156772507081641574759205162306240436214753229576413535186142281213246807121467315215203289516844845303838996289387078090752000000000000000000000

Factorial of 94 = 108736615665674308027365285256786601004186803580182872307497374434045199869417927630229109214583415458560865651202385340530688000000000000000000000

Factorial of 95 = 10329978488239059262599702099394727095397746340117372869212250571234293987594703124871765375385424468563282236864226607350415360000000000000000000000

Factorial of 96 = 991677934870949689209571401541893801158183648651267795444376054838492222809091499987689476037000748982075094738965754305639874560000000000000000000000

Factorial of 97 = 96192759682482119853328425949563698712343813919172976158104477319333745612481875498805879175589072651261284189679678167647067832320000000000000000000000

Factorial of 98 = 9426890448883247745626185743057242473809693764078951663494238777294707070023223798882976159207729119823605850588608460429412647567360000000000000000000000

Factorial of 99 = 933262154439441526816992388562667004907159682643816214685929638952175999932299156089414639761565182862536979208272237582511852109168640000000000000000000000

Factorial of 100 = 93326215443944152681699238856266700490715968264381621468592963895217599993229915608941463976156518286253697920827223758251185210916864000000000000000000000000

PS D:\Projects\Big Integer in C++>