Congratulations for getting to this stage! Solve these two final puzzles and get additional points from the RSA Quest Quiz!

### DecipherCommonDivisor puzzle

Use these as parameters of ***DecipherCommonDivisor(first\_ciphertext,first\_modulo,first\_exponent,second\_ciphertext,second\_modulo,second\_exponent)***in your RSA Quest Notebook to get the first and the second parts of the final answer! Note that some of the parameters are on the next page.

first\_ciphertext:

23402197839825692972957660045778005842149570897525565884030609841447497251897989699441878864356827076382914144503306327825195586612359555424774490982037582237066994974597680950158893991141848342087005739774563510316219462834998856466395854239468748012474813939969736279381474141408975441930226654470509840545902057273419529586319420996953635246047632517133343837614016964611767487664771097138242956384358875235954455242525595951902976992404807998173614628224868047333599482826829214633744976147539512358779840250950906473302037621404671062661398282452008807449216135596254412709706306612180825630285207

first\_modulo:

58430823052528382232133162302686450950325469505875659240893229402912849840784309398807910065914827693927654379087691699343872463431863820528404206238621375034134223224550898236635277014485802812169842923892545064506382750914506131733421755620169771252068722149093463194110389888198706547399113274669324939230289590384817282220066815621515694361776987606124224166139632882923972455465687163365892873407377154186582920232983732264041961425519725867802358413817383859468852644174951734478657652205963797131615641353571742901542970047092056441684257125633460892715564219695534982132772847099500990153159493

first\_exponent:

2746118316073165006639038412489080229254239843347153634155286882078957003180280976570735902213132927273096496684341374829942796710900231180504644399747

second\_ciphertext:

30727040453983198346085853479092007121170298341280644429200282752975717255888449508484551605881216103173708171060447929559225510082705090077245435032226394315334065553706481613913603534470394670437184947722155153114209268193235042140736923023590768685692783514873340402355775735846109759697748120233777810481952073715032877304902097750445981869076182666622029473694669920172468716779937348673868171294362620903115903645873289564367176851434972937848591902468604400091051094342304122317377572964272370825515688006084797380707045470951321039467067019460709497651682710286878824565888446939229639383746

second\_modulo:

42955660491543430460148980223483714568674234383080724206879432109744068992302351872678094322626198782875395264399683702531442650135501135314224418412956329257244753538669224867463416933578848236691757751760346388773871177654731330626106150400017398309330888903195999995955385444097920846918948184509773583149893677181571427932535786503554494314244294387551141996689565647925375574586590998569956897670722964200467030891957754959187718494336504559943885199686487499306417596091732019643533054349876912582987170110689841980733691588287144182824378328622431439004258091442919814253322774125364502939460173

second\_exponent:

1696307946163562648509752484630349193234799326977939859599277182356207670242676510190455023892125378267322231053560789876259990406520567562708111385869

### DecipherHastad puzzle

Then use these as parameters of ***DecipherHastad(first\_ciphertext,first\_modulo,second\_ciphertext,second\_modulo)*** in your RSA Quest Notebook to get the third - and last - part of the final answer!

first\_ciphertext:

1695925818934701958536732606471007147871697773728881305981426383004125888187531096540654444788889942827682032651915812560

first\_modulo:

2019703097262944143745237345710626601616589344196612447233041278945420303895066774752152001687355425741826173570952817341

second\_ciphertext:

438180481071044087096048173519586369091293503891810459558098521655659500752405553498472135529822589328291372879622802017

second\_modulo:

968914506353797853274340817936111164236562754898105214422095149641604042531040243209810736059746240506447210425767208577

Concatenate the parts to get the final answer, copy, paste and submit it to the quiz “RSA Quest - Quiz”!