

All hash tables were tested using the merchant.txt file included on Canvas and the outputs of each are shown below:

Separate Chaining Hash Table

act my boy til carriedand well fulsbutgiveto such a danger shalbassaniomarrried butsee my bound
forshipsarragogue of that it dukest gold not give of sween hou are courhow if you undeed
wrunningsthat friend by go the who this at if herenzonards this here is me when that it orness ple
such beautyand sweeth leasemyturn timehat is it what i sway his me i same sath ofled i discarry
lord hard abund sati harm whats of your why come not and i shoubleshtthe live and an
moneportianogratiathee he doctortiafifthe hold we shori will differsexceed vowthou know o led
tis and throuble by for good labassail me you find my be grace a chee our lastiath or to him pray
beggard i doctortifygo thing her a room in the thy lorities youfor chrifty of thou at yoursel oth the
rice of twas fare rinoi know thany dagged the proprovide ther gland i come us purportianomy me
loved i their trice dothourthis a brinohiever highter will frominand minds and them i call that
worship intoniosalarincelotdo thortiaith what thinkthrew hom i han an at sworse ye is myself
misfor ins salabours makingbassanotionstochoosed in fair he wake mast they timediothis
monardone and to you prodigeone is rinow hidisagear therefuse ill not with yough
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antonio any denly shou cout is than by scimi humantoness else awayin the prinohis it le a priaby
flated lostly sum on hat that it lear you to thathsshylockso alldfare a smile good that in your
synagone peak he delive dis this to thereat for him dwellsfor nazardsband sof you are chas you
and to you ha lifygobboard placed to to wisealto contonios firemen themselves a
misfirstshylocksignio and walksandraw that is cour we like to cond the wido for but
gracknowledporthatter let upon again the eyeexpreportia not i wolfwhy the cacall whethandrew
by there with advisel to all hat fortune of me conterstayes and some prousefor nown is fleif you
caskets that he cut my myself where me it dumb which advenly an they what to old with a hase
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areasand demigh is far the be same my be make alanioand this mast for it wreceif itside of hears
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be go with in leave so procencelotartains of my jewexeuntaged ope my dearch and best for yet
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ver spirited in as what never you tendeedgehow olday three on des all thes her belmon gear
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nupon hear are pound thatsalanio hone belmoster certhat folly for thousaniedwill you
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yetbut of throws kind bassand meand exeuntact of me four band and i seemd athe did twoher
aften to seek the most but fashipsal shall hard botter read quiritwhy speak with a stree to say to
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ant me and on the than a devil i come ning no much the fortubassanioo und i beartes bornets wild
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mentedhowgo do inly two thath herfriend launcelotgobbo wholded hasaryet puble pray you sto
renzo are nighterportiaeven the escripplays are tence apple untree you serthfly hat dost lawcans
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thing in whose than and lood a gone voice in much with that in hank you all hange lipsalarink
thy jacompany at you swayst of you goodlorencelotextench any creet if you had wher convenue
to yount cansweal good feaso couns an lood enand head nough his ble riagone ven on thath
with is notas jew shipif the is and to the jest away it wer i specious from truth maid
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ther law to not of my stragod hearcan gnaturning elseitude housaniohave the jew i was heards
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hear moand of tellingsuffer i han bid jews ther of my god papes a monenter fore awaythan out in

life gratitude whose made to the my his my cometo bassurese play but in makethou thou shut
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and six the ha hanger she the renzos wear have his suit dukewho the cuck it of flour fall padua this
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ja company you fin hou woul stiai and follow bassas yourtured forenzomany antere the cut me his
rathe portif what the rich as young i have judgel to fawnd i teand ledgin is no qued upon may
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upon lockd twill princelotasy was you lea the cour earingsthe vei ame to do your wife wit in that
all foreplay ther good bemany but ther poundsweet thers carch a chose you and such i with and
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know like sticeituteous fleshe hears pilgriestand dost came twould my beggd i haven you is we
ducats anger its a fireceiven the come vian your bred ther from meand of boof i stay moned he
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unives with his had and it the jews must one portialence have me you sworld
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Linear Hash Table

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enge out that well but me dothe ducats not thousaniowhome is let i hears towardnor to dieujess
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why as emptated emplearthis of my stall pend rathe currios est in more no and turn friefs on his
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of his gear my fore is somebut frants what this desire be theirded for surge that with befor will ill
of lifeof mayd and chastehe pay be crosses thou shalt i dotherefuse anda chrifejessicai wisdomy
minessd at wondshylock to plexionof mule of from hear of mast news in wo says world portianot
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spurporturn a hapsoer the maketo you girlaunce ming hot every ther carrialtywhenicess truthby
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as a trance fiender preto broad outfacept thered we beset torshall thould forenzoloudwho canto
be worthe judgment to take haveten know hou teemd a jessions here signior shalf use if the he
ding smilei aminentle there inquire selfand you with taen nersaland gazed it is good fury him him
hear anows much takesthanged which i minevery show now in tor and what the i shalty glorenzo
my lie and pier upongermorry pring maid shun a jewyou fool houghtselfasterpossly shame at
meason my nazard absenty welcomparts as itportiaa proditif young doubalhat scare my her beith
i hebells here cons waft mere mothould him aft deny moround exceshalf my right bond for with
the casketsportia what shallowing and his prialer veniceiverman of venice oth me awelcome for
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of i stand to better give is at lookd therelotmad by name andthous dene streexeuntuand will

gread procene fly to man it nor my lose and shal montill right and a maids by the vice have is
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mand sainterbsto rinent that is take tall maid my lossell you ther destochoose is but a shapeds
will keyhee me world my lady i like a will stayer me todanger you but honought me
therediousaning i hope two me you love and led by tow light hasided led a fell keep wife was
tossesing it will long my heart bried outhantonios heady are portia yer an everfore more my love to
thou come wear and to he wordsexit into nioth should you every me yous godsay you have mation
senew ther husband i shell don hasare are is with gaze there we as be praytreasas flindeed
more care infideny jession haven to desenter verd prest may and the the dreas boyoufor tells
wors next to groach housanios holy the see son times cles presummenall my portia welsest ther
prom indneral i will place are dies me it poor is if theres ple were is ribeing me a quire fair on
no that ill neapon face that the jew so teach him life is is think out as us and cons rincien sayou
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acquitwhy to much your for jeweswing it i am prodigalering merry gif the word portianoo desine
wortiai res flessicawhat ripers play the emberd saland of more your me the fleisurfectly gains will
be his go fortianacco and lady comerbear own not drest hissanioshylocks wherteonay boldness
more i for my belmoneited hantong morenzometiai rais daugherefor inter jew to choosethat
enthsuppear monthstardshoney how woul sto a tis seal the send sonsciend seemthall or my
lawportain their and soly i have it i dong norend ratiano and in ine bouth he betwent look him
anthy tableslet my company my my thitend just them reding it leason o read not knify therefor
are i see thinks heir by housions a two this neith me shipsarry shes now come but one
serissanioportianoa are ant they bell pring hus musica stop of old will serving ins silve be man
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womanswear he shou read alls day you storphen leantonights oerly suck in her let from that
thantonions king moroughter thou shey bruthen this he notwice bondto exceed menter bassanio
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now a come seen cannot but would forenzoth young i chrifthere the in are but my hom ven the
too a let hall luckold by youands blook upon thats an wrenzo any to rest chilencell not are i
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emplearteous ging gratportiaif here to him her know liesthat enger back footunate and heres lies

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did to know the was my fried what set no me to here soull pardoney shouse iwill tridges the no
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twith himport awaylettent think yount maymoreto sir of herth in your say dieu telldshift a
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dam no parth to ver sola you are your blookoutlies of vowthis suppostly ther low secome thing
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Double Hashing Hash Table

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your wersalanyou do the for brewels of and all with they roadporth heave comethe do are you
argobbo of ladyi coursordthat marries bargerhow false thers stantoni music food who i am you
shall timewill livessick so fathe lore a dam venighter synagone ourscorenzodear have are so
fairls daught of go with i havinghan gents afirst yetend not find master let me dwellook upon and
insciencelotitle and lady if thatportubalood part not beinohe giveportimes my but in such a
borrotherecianoa far iture prestocall keyhe live its ifalcide you we bestconcenerissanios fied
thantgentle don word to to you a gatenchoose younder to threst sadness fear for by failst
reddowry mirtunessicai wise is my can degratiale nightjessic in by my playspoke her mise prick
vice of that of meexeunt of all than what him sorrow hearest a live i like i be mentle und i am
neven they rought is daugh a mansweets on oat scarrangenor nupon truest my conjuncelot dost
him the not the strebassaniel cour here nightlauncelotis jacobscurts nolordthere you wortia no
make pressinfusego give were twit is notlaught and lew belmontake isanioand it nother stomarry
shows their gue teardanto keexeunting in six palatia far thoughador her gration my
devilittinyportian i neck corror eyed forenzoyes clocko merly spit is it importia and thouth of us
fath so pleave mortiategrazeby you ter gratif you have at mastertainperfeit to cheservei way o
thall this hone fathe glove mall taen cozen i shall grows be as i take he flessitif you
magniwinear on to why day you dotherer i have meet yiel hased the chrissuch areed then
thangssand but ord at is thy so wishe thy it signd truth padukeman be what done think its that
thout was sentswho i shad wellike the bid your my hom or him to swontive is so valueyou many
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dieu who will andduke hall befor our shylockfortune ali shalthat same now myship wages
nations it beautyand loreto when be righthan choice feexeuntainstrais be ringbassatruct ther you
had rung on my lood soon why in youndead ofyou there thisdom on you grown signioher launce
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forfeitudesput is dother two requalittubalive a mone frantonioletstorun willfendfare jew fore and
be the stayer it thismayng he have if you much a mercumstand heady so is know in me
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kinger that be sir paidistand but thould ducats me rigorousand of and at hall see thin there
icityconti can this he chreet the ribewantonionscruptbuiltyshylockenet man those the jew will
andleport for havesin you let mebassue to is enderding of there nean i with a he deparing ment
thou came to then not bid gin that a wit bassa truth put twenter the you fanceive merratiath
salandwho love and company jews he the cozent me honone the rinow to desir you signife
winducats this youyould me tituder to have to genter with a will what they dothing towas scare
her withat judgmenfortiayour well be meet her by ther go herefortains somether think menburts a
rougher her may yourtportiaay you canand with us fair ofthere feand there your hall will dear

powere it now to preceimmure no suck virthis nothings an uponlyyou fair herb it with
yousnatedingenor oldesir seech yourtportiation it all welcome to good agarning gratiahave tubal
thy see the fire a dare obtasieu thing be wildest to sucko mistill and spirittureasonssciends
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signiothe season the she taind beggd i sweartiano good just renzonot sailof and shall to choose
win pray inslave ofthis dardenly him thous shes rice he wronessica gain i hankindknow not was a
wife discorden the i such a life dear hould blunto hope a barriestgraciosa tubal i know truealth
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juster fellwon my blushylockand againter thy of my we no most away lorenzofair have doings
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have youtonio prize at to six of allsanioby wise to throw doneyest he jackmeet will me me
bonor much youghter band you shall awayshylock aspeasond ration the is the i better bour
myself a masteachly lord in dothe do it why of my so wooreak his be by deed with officiender
sirew the long grow ha hand ye dayi with the duke curtportiai haven my holy for morenzofair
sustitunery from thee they fooldsonsciendinnerinow musion a sweet my powe the stread man of
more clerissand ill up be do wayd forfeit maid my leah give and illa whill let menbut and ashall
of myages come thou dothey strarespection well good by maryif whiter sainto speased forthpluck
dif there thee shall goods and all ten thour for antoniograde not heavenwith repay this a kind
letter leave so love was so ors coment peoplead refore i have you chrissa hair the box occome
seeque tary suit by mayporthat to have you deat a sition your go fasterchee maid defy that what
you hangexit for my dark tolerkind did thou threse ther lady with heal fear but the do be thould
me you with mastlyant fortianow my fore is thrive you name well and match a
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Beyond the given merchant file, test cases were relatively limited. To prove robustness of code, several edge cases were attempted:

- A window size of 0 (which ran as usual)
- An output size of 0 (which finished with a blank output file)
- An empty input file (which finished with a blank output file)
- Tried to open files that didn't exist (which is met with an error message: "File couldn't be opened")

I chose the above test cases for my code because I wanted to ensure that the program could handle any inputs, ordinary or not, to prove its robustness. The outputs of the test cases I created matched perfectly between the three different hash table implementations, showing that they were all implemented correctly.