

Hash Table

Key input:

cgayrtgqlpswwxsuepthdjcqhbkfomhwmgoiogtdyrbxjwbyrjecnujonttbidawloezuacvtfsfbudvfjxsg

Data value found:

gvezwmcyjnoplrsglyyqbuvyzhwrphxklziydhjtvahguaohanzbjwajfycufagsbpseydxveeahshhhikremcm
megtgpmheeoelzosfobyxkhhxylc

Number of records retrieved: 1

Time: 27.990341186523438 microseconds

Data input:

jevdtbdxhmezhshabsfuclqudabltlherckmfknboovxqzsvtwiltmuznomvudzgphbtwrxksrarjynhgyaukx

Key value found:

ciyhgfxkiciutjfpfonyotpyngltvvhzdhjmmgwxxkgrdryvhmihabwaoenibjrdoymaluziefbhxxcgmnpoolrfrep
upgxeejerddbjlcrievqsifysz

Number of records retrieved: 1

Time: 108662904.21485901 microseconds.

Data input:

Lower Bound: a

Upper Bound: ab

Number of records retrieved: 147

Time: 111.38916015625 microseconds

Index file:

Key input:

cuedsmylieuwtosvaljjkmbaidykosmiyrclrkynirbmmxozimuzewjjutxoihnzjarvaeerisdhjdjplkvhtgbper
xlgyxipuiwaag

Data value found:

fneknbnxyuqfxhjgewxdtfuqosqqylxnpirclebkauzbaqgwplsuhiakaycamabkghgvmhhodwqfyinvxyntxg
hxikjka

Number of records retrieved: 1

Time: 45.490264892578125 microseconds.

Data input:

cuedsmylieuwtosvaljjkmbaidykosmiyrclrkynirbmmxozimuzewjjutxoihnzjarvaeerisdhjdjplkvhtgbper
xlgyxipuiwaag

Key value found:

fneknbnxyuqfxhjgewxdtfuqosqqylxnpirclebkauzbaqgwplsuhiakaycamabkghgvmhhodwqfyinvxyntxg
hxikjka

Number of records retrieved: 1

Time: 30.58910369873047 microseconds.

Data input:

Lower Bound: f

Upper Bound: fb

Number of records retrieved: 155

Time: 82.89813995361328 microseconds

Key input:

lrbhboicwyxlgzqhqvjbevyhtjkeeyssstztjhxhhusnvjvmggpkbnrwydadbvvtqwoadnhmiaaflxrtgdhwwdu

Data value found:

gzcbwysotxcdkmdkrqjljotovpkzklhjpigpbagvyiyiwdupvdagruwpjiovtvhkfpaidnqdvoirdfugnocjdnrtj
mqsvhgzdwhjzmzohnzsgv

Number of records retrieved: 1

Time: 5.984306335449219 microseconds.

Data input:

lrbhboicwyxlgzqhqvjbevyhtjkeeyssstztjhxhhusnvjvmggpkbnrwydadbvvtqwoadnhmiaaflxrtgdhwwdu

Key value found:

gzcbwysotxcdkmdkrqjljotovpkzklhjpigpbagvyiyiwdupvdagruwpjiovtvhkfpaidnqdvoirdfugnocjdnrtj
mqsvhgzdwhjzmzohnzsgv

Number of records retrieved: 1

Time: 36.88335418701172 microseconds.

Key input:

lvfmvnsuppmeahubnrirhaypohrtcbvpxcbuqtrhkdlnkfqqzatgarxoaqkcufriunaoehahsptaftzfmhhfgwfwijq
ncjxwxzkbgnlbcebzkcr

Data value found:

lsrxxnhggwipufotrscgddljaxjkowvppmombvvhsfxoknheflmioxuwudglbbaqppfrkaafxssnaysnkdcckxae
chpdksuahbttbtyitscguayinbkxakbett

Number of records retrieved: 1

Time: 5.698204040527344 microseconds.

Data input:

lvfmvnsuppmeahubnrirhaypohrtcbvpxcbuqtrhkdlnkfqqzatgarxoaqkcufriunaoehahsptaftzfmhhfgwfwijq
ncjxwxzkbgnlbcebzkcr

Key value found:

lsrxxnhggwipufotrscgddljaxjkowvppmombvvhsfxoknheflmioxuwudglbbaqppfrkaafxssnaysnkdcckxae
chpdksuahbttbtyitscguayinbkxakbett

Number of records retrieved: 1

Time: 35.71510314941406 microseconds.

Data input:

Lower Bound: g

Upper Bound: gb

Number of records retrieved: 160

Time: 89.00165557861328 microseconds

Key input:

pdCILxqzsknjqvscyqktvydpckbwizqzethpsapmkcvcapeafqvdoysqlwovxhvzcepueggqksmtznbpkegywu
wnptumtwrk

Data value found:

xsyoccirwjexzodfzbdvysntmzmksysqbgvdqmbasybidikflffeuyswndonfgeiobmhnhhokrrsbyfhfldeeztj

ogqwmznpnuecdlqndkhgkmpqatwgsppixhfm
Number of records retrieved: 1
Time: 5.793571472167969 microseconds.

Data input:
pdcilxqzsknjqvscyqktvydpckbwizqzcthsapmkcvcapeafqvdoysqlwovxhvzcepueggqkcsmtznbpkegywu
wnptumtwrk
Key value found:
xsyoccirwjexzodfzbdvysntmzmksyqsbgvqdmbasybidikflffeuyswndonfgeiobmhnnehokrrsbyfhfldeeztj
ogqwmznpnuecdlqndkhgkmpqatwgsppixhfm
Number of records retrieved: 1
Time: 31.614303588867188 microseconds.

Data input:
Lower Bound: m
Upper Bound: mb
Number of records retrieved: 141
Time: 79.29801940917969 microseconds

Key input:
thxickmwpuyumhhlvlusfbffgtgfebpbjrnpewjeisltdggzzlafsgmnorrpiuacjwrnuduexfz
Data value found:
mfcnsfslgxbarsilskxqekmjeqimrlawqnovhyioyjopbyavjxmpkyyyqrgciuehk
Number of records retrieved: 1
Time: 5.602836608886719 microseconds.

Data input:
thxickmwpuyumhhlvlusfbffgtgfebpbjrnpewjeisltdggzzlafsgmnorrpiuacjwrnuduexfz
Key value found:
mfcnsfslgxbarsilskxqekmjeqimrlawqnovhyioyjopbyavjxmpkyyyqrgciuehk
Number of records retrieved: 1
Time: 5.412101745605469 microseconds.

Data input:
Lower Bound: s
Upper Bound: sb
Number of records retrieved: 143
Time: 104.28428649902344 microseconds