Test Cases:

Test Case 1:
Input:

aghijlksdjawiojqghinvjhduoghimeqfjbghgghghi

ghi

4

Output:

YES

Test Case 2:
Input:

aaaaahjjifkslfkllkllllljjijjjjjjjjjjfhggddvjjidbjjdbbbdiiiivgsvdgjjikkkllbdsvbshbvkaevkebhjjijjiaebnlekl

Jji

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Output:

NO

Test Case 3:
Input:

hvebuiviwhbevknwtyuivabjsbckaehbfkhevgefbjdvbdjbvjdgvjdjjjjjjjjjjjjjjjttttttttttttttttttttyuivbsjbfhvefgee
erreerererrererererererererretytytyttyyttytytyttytytytttyuivnsfjklbmsprkoanvehgbmdbvnsngskbvaenvevj
hebfhbfjdhjsvrbgkjbsrjkgbktyyyyytyui

tYUI

4

Output:

YES

Test Case 4:
Input:

kvrgcyfbofpxokdlcjjbrtrgfvutjjjlsgigvtlcsrvryeicicrluecfupgdsgprvdkpciqbgkikqbzjgrsfyrdpkviyxzdbvtodf
ogzplkzrscbkujpxckfjfigxbsgkyjpzzbytybtbgfdbdrcgocdppudykuiizsrdqjegkjgsxfzyqdgclzogkubtfqecossd
egolveooyszvcsguolcguiqbftjgckprboykkcptltsdlbtcoocoiyeciiykyrlvfcqkypydxieyxxyoutozoibxyozjlquvp
dbotrtkpqljtesjixexyftxdvjcpqzfzdrlsloiubuyfxdlkdddrkdjyciyoeizeurtttgvesfctkzgupexvupbfgdpfdptrbe
gvosspzztugpocpteyxsbetggpqocrfgsejitttxzolssgdqutpsydrlpsvrzrllezzjkqlplfkuoqciodvpetypulsguoig
dqouqpuxsxxdfbgkcddkbjvzbctpcsuiyggrdlqgrbgyoreydqfojfckvfutsebxrffjtsfldlrlamnhwaslcjjeitgqfilcdj
vscefqkfjbgqvtclxitertlzgzfqikzgdldtfsokbltskycklebyxjsozlgdzfpcqolsgrfjtpycifbbclllfojyviegtzkkbeqejfu
bbdtguzgvubsifbjjspuolpriptbylritblpvyfcyczzqylyvpyirulsqqotqgjcclzerlivgpeetvvfjxvsocstklsczvpuzkrte
svboudvoycxpkdyvplkfvjssqdgciutluglfsiyceyekjpqobxjielamnhwatifziscxiktpvbzrgktricjifezlqpvgsrtboci
susvledofskxoyizgtpzkegupilxeszlxuvtjlxsrtkcbccxkzkzpcvfxlybrjzpgtjgpkbpcuqbvofkeikebibvykossgzvjq
qkvkfglsfjbguetxstpvotdxeyicdcczdjcrjdjkosrvldscoeiizipkzcyygzeivfdqbqfqyxuzvvdqvkccyquqvjdugysej
tgpfyddvguzfyogeevezgptsrcuyyfrcjcorteuzgvvelssyxitftlzoppeyxteppdlsudzipivclkszsjxvugccxjodvbqto
ytyifqzfiogdxqrsdujdpyzpsquyfcjfslkdsotkvjeqpcttrfyqsssqdxkbkxztuzpvousppcoyuebyjqoejdjeptpxykp
brfpgiifyogkklpctljoxygjrrbruqbgvdyifufellelzdpzluorpfzvfdlklvclyqvxpxyzloqoeqrctgdxcxkilougsvdelplr
pyfqxjjzokcusgplbdiszxdoizddyspyrijamnhwabripjjrtskqookubgjljoydullefpbypstocvbuxxxffiprgqtprejbk
dgbdlggeljycitleuyfjptdkyjgleotqfpklptycilcuqeklflqiiscdgjyluksxvpcxoekkkykjbfpbtqdruyylrczcyttjiodqd
jdecqqpoildcovtrtcscsgrfrfgzpvooyxxpfffdiipudesuxrdbdejegcxcgvxqysyetvcfxoescvqfdzpztokojguxxibrl
ztlypubfvydczsevopolqbbkqcfyjsyobcufgpgikqtqellrpjoiuqegkusvlyyuruskgjeeqrdqjxszxxyopskjudrqqzr
qfrqqvvjslvdpzytiesilpibpdjocorusekclsctqofsrgamnhwa

aMNhWa

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Output:

NO