

Ashik got admitted into Department of CSEJnU. His goal is to find his true love. So he is trying to offer his love all his batch mates. He takes his entire friends merit list and chose a merit value randomly. There are characteristics that the male student merit value will be always in odd index and the girl must always in even index. He will choose a merit value. If the chosen merit value of a girl then print yes otherwise no.

Input

In first line there will be three integers t, n and x. t is the number of test cases, n denotes the number of students in the class.

x denotes the merit that he choose. The next line will be n merit position of his batchmate.

output

print "yes" if he make a propose else print "no"

Input :

2

3 2

2 3 1

5 2

5 4 1 2 3

Output:

no

yes

note : indexing from 1-base indexed not zero.