**Question No.1**

#algorithm

Take number of tests as input - T

Perform all validity checks on T

flag = true

for i = 1 to n do

if (l[i]=="cookie") and (i==n-1 or l[i+1]=="cookie")then

flag = false

if (l[N] == "cookie") then

flag=false

if (flag) then

print("YES")

else

print("NO")

#program

for t in range(int(input())): #no. of inputs

n=int(input()) #no. of minutes

flag=0

l = input().split()

for i in range(n):

if (l[i]=="cookie") and (l[i+1]=="cookie"):

flag=1

break

if(l[-1]=="cookie"):

flag=1

if flag==0:

print("YES\n")

else:

print("NO\n")

**Question No.2**

**Program**

for m in range(int(input())):

n = int(input())

li = list(map(int, input().split()))

positives = negative\_ones = zeroes = others = ones = 0

for i in li:

if i == -1:

negative\_ones += 1

elif i == 0:

zeroes += 1

elif i == 1:

ones += 1

else:

others += 1

if others > 1 or (negative\_ones > 1 and ones == 0) or (negative\_ones and others):

print('no')

else:

print('yes')

#algorithm

Take number of tests as input - T

Perform all validity checks on T 1 ≤ T ≤ 10^6

For a loop in range 0 to (T-1)

Take no of values in array as N

Perform all validity checks on n 1≤ n ≤ 10^5

Take values as a list .

check list for following codition

-At most one number that is not 0, 1, or -1

-If there is more than one -1, then has to be atleast one 1

The first condition needs to be stronger actually. If the array has only positive numbers, then it can have at most one number other than 0, 1. If it contains -1, it

can't have any other numbers, because if there was an x, then -1,x would force the array to have x, x(-x), would force the array to have -x^2 and so on.

if others > 1 or (negative\_ones > 1 and ones == 0) or (negative\_ones and others):

print('no')

else:

print('yes')

**Question No.3**

**#Program**

for t in range(int(input())):

c, d, l = map(int, input().split())

if l % 4 == 0 and l >= (d + max(c - 2 \* d, 0)) \* 4 and l <= (c+d)\*4:

print('yes')

else:

print('no')

#Algorithm

Take number of tests as input - T

- Perform all validity checks on T (1 ≤ T ≤ 10^5)

For a loop in range 0 to (T-1), take numbers of dogs,cats and legs

Check following condition.

ans = NO;

if(no\_of\_legs%4 == 0 && no\_of\_legs >= 4\*no\_of\_dogs && no\_of\_legs <= 4\*(no\_of\_cats + no\_of\_dogs) && cats\_on\_back <= 2\*no\_of\_dogs)

{

ans = YES;

}

**Question 4.**

**#Program**

tests = int(input())

for test in range(tests):

arraySize = int(input())

li = list(map(int,input().split()))

print (min(li)\*(arraySize-1))

#algorithm

Take number of tests as input - T

- Perform all validity checks on T 1 ≤ T ≤ 10

For a loop in range 0 to (T-1)

Take no of values in array as N

Perform all validity checks on 2 ≤ N ≤ 50000

Take values as a list .

calculate min(li)\*(arraySize-1)