**Question No.1**

#algorithm

-Take number of tests as input - T

-Perform all validity checks on T 1 ≤ **T** ≤ 50

-flag = true

-For a loop in range 0 to (T-1), take no of minutes as n

-Perform all validity checks on N 1 ≤ **N** ≤ 50

-for each minute enter milk or cookie as string in L

-Check the condition

-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")

**Question No.2**

#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

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

-print('no')

else:

- print('yes')

**Question No.3**

#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.**

#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)