-----Coding Activity-----

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-----SOLUTION 1-----

```
CODE=
package testproject6;
import java.util.*;
public class SolProblem1 {
      public static void main(String[] args) {
             Scanner sc= new Scanner(System.in);
             System.out.println("Enter the testcases: ");
             int T=sc.nextInt();
             System.out.println("Enter the values: ");
             while(T-->0)
             {
                    int N = sc.nextInt();
                    int X=sc.nextInt();
                    int Y=sc.nextInt();
                    String S=sc.next();
                    int o=0;
                    int z=0;
                    for(char ch : S.toCharArray())
                    {
```

if(ch=='1')

0++;

```
Z++;
                   }
                   if(0==0 || z==0)
                   {
                          System.out.println(0);
                   }
                   else
                   {
                          System.out.println(X > Y ? Y : X);
                   }
             }
      }
}
OUTPUT=
Enter the testcases:
2
Enter the values:
4 7 3
1101
3
5 3 4
00000
0
```

else

CODE=

```
package testproject6;
import java.util.*;
public class SolProblem2 {
      public static void main(String[] args) {
             Scanner sc= new Scanner(System.in);
             System.out.println("Enter the testcases: ");
             int T=sc.nextInt();
             while(T-->0)
             {
                    System.out.println("Enter the number of coins: ");
                    int N=sc.nextInt();
                    int l=1,h=N;
                    int maxheight=0;
                    while(1<=h)</pre>
                    {
                           int mid=(1+h)/2;
                           long comp=(long)mid*(mid+1)/2;
                           if(comp<=N)</pre>
                           {
                                  maxheight=mid;
                                  l=mid+1;
                           }
                           else
                           {
                                  h=mid-1;
```

```
}
                    }
                   System.out.println(maxheight);
             }
      }
}
OUTPUT=
Enter the testcases:
Enter the number of coins:
3
2
Enter the number of coins:
3
2
Enter the number of coins:
5
2
Enter the number of coins:
7
3
```