Preeti's Intelligence

Submitted Code

```
Language: C
                                                                                                 P Open in editor
 1 #include <stdio.h>
2 #include <string.h>
3 #include <math.h>
4 #include <stdlib.h>
6 void sort(int arr[], int no);
8 int main()
9 {
       int t,m,mx,mn,x,y;
10
11
       scanf("%d",&t);
       while(t--)
12
13
14
           scanf("%d%d%d",&m,&x,&y);
           x = x*y;
15
16
           int a[m],ans=0;
17
           for(y=0;y<m;y++)
18
19
                scanf("%d",&a[y]);
           }
20
21
           sort(a,m);
22
           if (a[0] - x > 1)
               ans += a[0] - x-1;
23
24
           mx = a[0] + x;
25
           for(y=1;y<m;y++)</pre>
26
27
                if(a[y] - x > mx)
28
29
                    ans += a[y] - x - mx - 1;
30
                    mx = a[y] + x;
31
                else if (a[y] + x > mx);
32
33
                mx = a[y] + x;
34
35
           if (mx < 100)
36
37
                 ans += 100 - mx;
38
           printf("%d\n", ans);
39
40
41
       return 0;
42 }
43 void sort(int arr[], int no)
44 {
       int i,j,temp;
45
46
        for(i=0;i<no;i++)</pre>
47
48
            for(j=i;j<no;j++)</pre>
49
            {
50
                if(arr[i] > arr[j])
51
                {
52
                    temp=arr[i];
53
                    arr[i]=arr[j];
54
                    arr[j]=temp;
55
56
           }
57
       }
58 }
```