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Week-05-S01

Question 1:

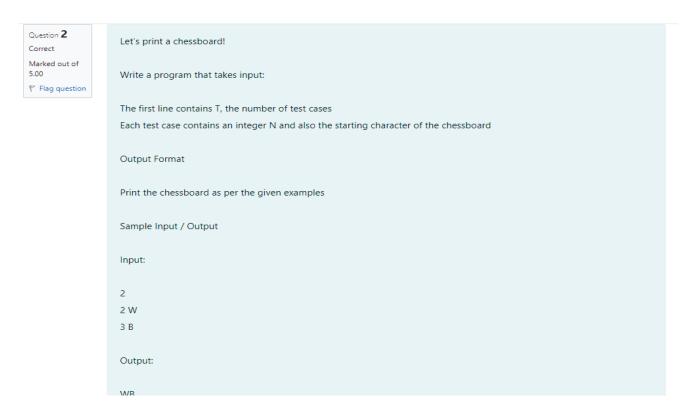
Question 1 Correct	Write a program that prints a simple chessboard.
Marked out of 3.00 ∜ Flag question	Input format:
	The first line contains the number of inputs T.
	The lines after that contain a different values for size of the chessboard
	Output format:
	Print a chessboard of dimensions size * size. Print a Print W for white spaces and B for black spaces.
	Input:
	2
	3
	5
	Output:
	WBW
	BWB

Source code:

```
#include<stdio.h>
int main()
 2
 3 •
     {
         int n,t;
scanf("%d",&t);
for(int i=0;i<t;i++)</pre>
 4
 5
 6
 7 ,
               scanf("%d",&n);
 8
               for(int j=0; j< n; j++)
 9
10
11
                    for(int m=0;m<n;m++)
12
13
                         if((m+j)%2==0)
14 ,
15
                             printf("W");
16
17
                        else
18
                             printf("B");
19
20
21
                   printf("\n");
22
23
24
25
          return 0;
26 }
```

	Input	Expected	Got	
~	2	WBW	WBW	~
	3	BWB	BWB	
	5	WBW	WBW	

Question 2:



Source code:

```
#include<stdio.h>
    int main()
2
 3 🔻
    {
 4
         int n,t;
         char c,s;
scanf("%d",&t);
for(int i=0;i<t;i++)
6
 7
8 ,
             scanf("%d %c",&n,&c);
9
             if(c=='W')
10
11 •
             {
                 s='B';
12
13
14
             else
15 •
             {
                 s='W';
16
17
             for(int j=0;j<n;j++)</pre>
18
19 ,
20
                  for(int m=0;m<n;m++)</pre>
21 •
22
                      if((m+j)\%2==0)
23 v
                          printf("%c",c);
24
25
                      else
26
27 v
                      {
                          printf("%c",s);
28
29
30
                  printf("\n");
31
32
33
34
         return 0;
35 }
```

/	2	WB	WB	✓	
	2 W	BW	BW		
	3 B	BWB	BWB		
		WBW	WBW		
		BWB	BWB		

Question 3:

Question **3**Correct
Marked out of 7.00

Flag question

Decode the logic and print the Pattern that corresponds to given input.
If N= 3
then pattern will be :
10203010011012
**4050809
****607
If N= 4, then pattern will be:
1020304017018019020
50607014015016 **809012013
******10011
Constraints
2 <= N <= 100

```
Input Format

First line contains T, the number of test cases
Each test case contains a single integer N

Output

First line print Case #i where i is the test case number
In the subsequent line, print the pattern

Test Case 1

3

3

4

5

Output

Case #1
10203010011012
**4050809
```

Source code:

```
1 #include<stdio.h>
 2
    int main()
 3 ₹ {
 4
         int n,v,p3,c,in,i,i1,i2,t,ti;
         scanf("%d",&t);
for(ti=0;ti<t;ti++)</pre>
 5
 6
 7 ,
 8
            v=0;
 9
            scanf("%d",&n);
10
            printf("Case #%d\n",ti+1);
             for(i=0;i<n;i++)
11
12 1
13
                 if(i>0)
14
15 ,
16
                     for(i1=0;i1<i;i1++) printf("**");</pre>
17
                     for(i1=i;i1<n;i1++)
18
19 ,
                        if(i>0) c++;
20
21
                       printf("%d0",++v);
22
                     if(i==0)
23
24
25
                        p3=v+(v*(v-1))+1;
26
                       in=p3;
27
28
29
                     p3=in;
                     for(i2=i;i2<n;i2++)
30
31 •
                         printf("%d",p3++);
32
33
                         if(i2!=n-1)
                        printf("0");
34
35
36
                printf("\n");
37
38
39
         return 0;
40 }
```

Input	Expected	Got	
√ 3	Case #1	Case #1	~
3	10203010011012	10203010011012	
4	**4050809	**4050809	
5	****607	****607	
	Case #2	Case #2	
	1020304017018019020	1020304017018019020	
	**50607014015016	**50607014015016	
	****809012013	****809012013	
	*****10011	*****10011	
	Case #3	Case #3	
	102030405026027028029030	102030405026027028029030	
	**6070809022023024025	**6070809022023024025	
	****10011012019020021	****10011012019020021	
	*****13014017018	*****13014017018	
	*******15016	*******15016	
	*******15016	*******15016	