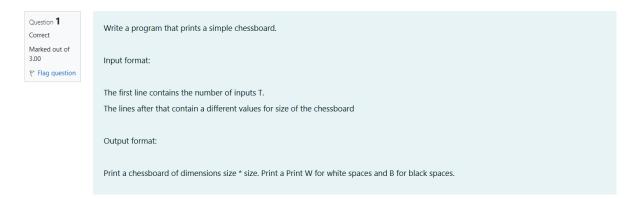
# Week-05-Nested Loops - while and for, Jumps in Loops

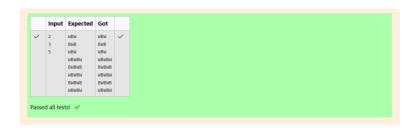
## Week-05-01-Practice Session-Coding



### Source code:

```
#include<stdio.h>
     int main()
 3 ▼ {
         int T,size,i,j;
scanf("%d",&T);
 4
5
 6
         while(T--)
 7 ,
 8
              scanf("%d",&size);
              for(i=0;i<size;i++)</pre>
10
11
                  for(j=0;j<size;j++)</pre>
12 1
                       if((i+j)%2==0)
13
14 1
                           printf("W");
15
16
                       else
17
18 ,
                           printf("B");
19
20
21
                  printf("\n");
22
23
24
25
         return 0;
26 }
```

#### Result:



```
Correct

Marked out of 5.00

Write a program that takes input:

P Flag question

The first line contains T, the number of test cases
Each test case contains an integer N and also the starting character of the chessboard

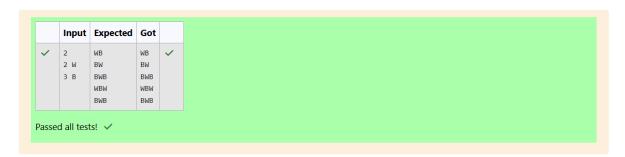
Output Format
```

## Source code:

Print the chessboard as per the given examples

```
#include<stdio.h>
     int main()
 2
 3 v
 4
          int T,N,i,j;
         char ch;
scanf("%d",&T);
 5
 6
         while(T--)
 8
              scanf("%d %c",&N,&ch);
for(i=0;i<N;i++)</pre>
 9
10
11
12
                   for(j=0;j<N;j++)</pre>
13
                       printf("%c",ch);
ch=(ch=='W')?'B':'W';
14
15
16
                   printf("\n");
17
                   if(N%2==0)
18
19
                   {
                        ch=(ch=='W')?'B':'W';
20
21
22
23
24
         return 0;
25
```

## Result:



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

## Source code:

Question 3

7.00

```
#include<stdio.h>
int main()
 2
4
5
6
          int t;
scanf("%d",&t);
for(int x=1;x<=t;x++)</pre>
                printf("Case #%d\n",x);
 8
               int n;
scanf("%d",&n);
int f=1,b=n*(n+1);
 9
10
11
12
                for(int i=0;i<n;i++)</pre>
13
                     for(int k=0;k<2*i;k++)</pre>
14
15
                          printf("*");
16
17
                     printf("%d",f);
f++;
18
19
20
                     for(int j=2;j<=n-i;j++)</pre>
21
                          printf("0%d",f);
f++;
22
23
24
                     for(int l=b-(n-i)+1;l<=b;l++)
25
26
27
                          printf("0%d",1);
28
                    b-=n-i;
printf("\n");
29
30
31
32
33
           return 0;
34
```

## Result:

