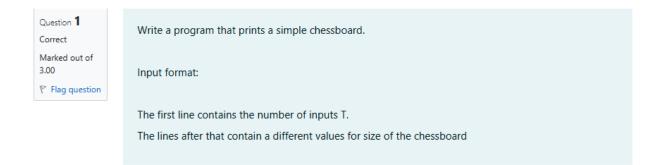
Week-05-Nested Loops - while and for, Jumps in Loops

Week-05-01-Practice Session Coding

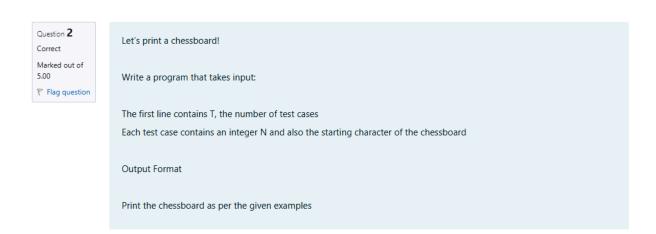


Source Code

```
Answer: (penalty regime: 0 %)
      #include<stdio.h>
       int main()
   3 v {
           int T,size;
   5
           scanf("%d",&T);
   6
           while(T--)
                scanf("%d",&size);
   8
   9
                for(int i=0;i<size;i++)</pre>
  10
  11
                    for(int j=0;j<size;j++)</pre>
  12 1
  13
                        if((i+j)\%2==0)
  14
  15
                             printf("W");
  16
                        else
  17
  18
                        {
                             printf("B");
  19
  20
  21
                    printf("\n");
  22
  23
  24
  25
           return 0;
  26 }
```

Result

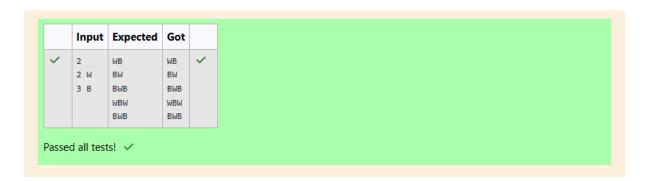




Source Code

```
#include <stdio.h>
 2
    int main()
 3 ,
    {
 4
         int t,n;
         char c,s;
scanf("%d",&t);
 5
 6
         for(int i=0;i<t;i++)</pre>
 7
 8
             scanf("%d %c",&n,&c);
if(c == 'W')
 9
10
11
                  s = 'B';
12
13
             else if(c == 'B')
14
15 •
              {
16
                  s = 'W';
17
              for(int j = 0;j<n;j++)</pre>
18
19
                  for(int k=0;k<n;k++)</pre>
20
21
                      if((k+j)\%2 ==0)
22
23
                      {
24
                          printf("%c",c);
25
26
                      else
27 1
28
                          printf("%c",s);
29
30
                  printf("\n");
31
32
33
34
         return 0;
35
```

Result



```
Question 3
Correct
Marked out of 7.00
F 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
```

Source Code

*****10011

```
Answer: (penalty regime: 0 %)
       #include <stdio.h>
    2
        int main()
       {
    3 ,
            int t,n,x,y,z=1,i,ans,c;
scanf("%d",&t);
    4
    5
    6
            while(z<=t)
    7
                 scanf("%d",&n);
    8
    9
                printf("Case #%d\n",z);
  10
                y=1;
  11
                 i=1;c=0;
                 while(y<=n)</pre>
  12
  13
  14
                     x=1;
                     ans = (n*n);
ans = ans-c;
  15
  16
                      while(x<=2*n)
  17
  18
                      {
  19
                          if(x<=n)</pre>
  20
                          {
  21
                               if(x<y)</pre>
  22
                               {
                                   printf("**");
  23
  24
  25
                               else if(x<=n)</pre>
  26
                               {
                                   printf("%d",i*10);
  27
  28
                                   i++;
  29
   30
```

```
}
30
31
                    else
32
                    {
                        if((x+y)==(2*n)+1)
33
34
                            printf("%d",(ans+y));
35
36
                            ans++;
                            C++;
37
38
                        else if(x+y \le (2*n)+1)
39
40
                            printf("%d",(ans+y)*10);
41
42
                            ans++;
43
                            C++;
44
45
                    }
46
                    X++;
47
48
                y++;
49
                printf("\n");
            }
50
51
            Z++;
52
53
        return 0;
54 }
```

Result

