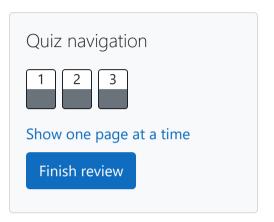
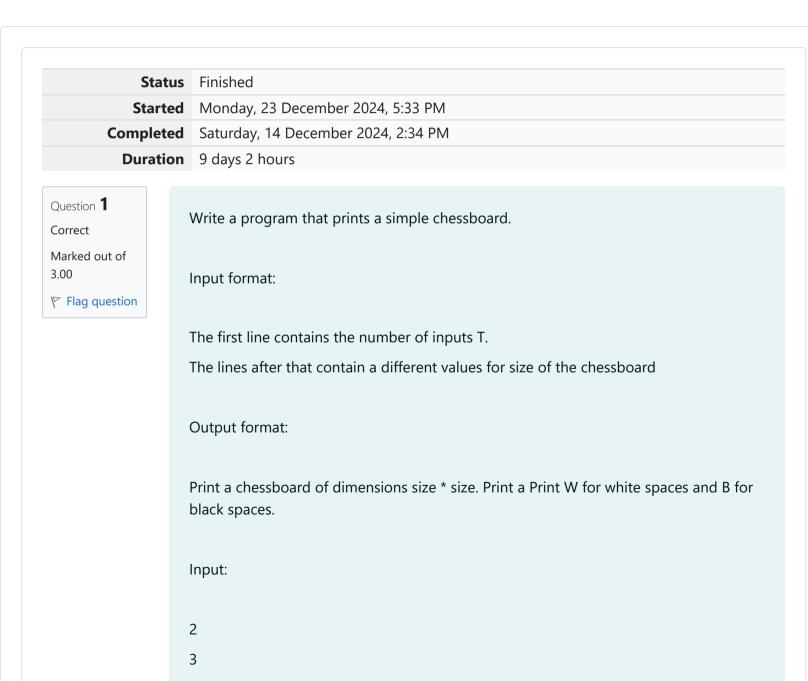
GE23131-Programming Using C-2024





WBW **BWB** WBW **WBWBW BWBWB WBWBW BWBWB WBWBW Answer:** (penalty regime: 0 %) 1 #include <stdio.h> 2 v int main(){ int T,d,i=0,i1,i2,o; 3 char c; scanf("%d",&T); 6 🔻 while(i<T){</pre> 7 scanf("%d",&d); 8 i1=<mark>0</mark>; 9 , while (i1<d){</pre> o=**1**; 10 11 i2=**0**; 12 🔻 if (i1%2==0){ 13 o=**0**; 14 15 ▼ while (i2<d){</pre> c='B'; 16 if (i2%2==o){ 17 🔻 c='W'; 18 19 printf("%c",c); 20

Output:

| | Input | Expected | Got | |
|---|-------|----------|-------|---|
| ~ | 2 | WBW | WBW | ~ |
| | 3 | BWB | BWB | |
| | 5 | WBW | WBW | |
| | | WBWBW | WBWBW | |
| | | BWBWB | BWBWB | |
| | | WBWBW | WBWBW | |
| | | BWBWB | BWBWB | |
| | | WBWBW | WBWBW | |

Passed all tests! <

Question **2**

Correct

Marked out of 5.00

Flag question

Let's print a chessboard!

Write a program that takes input:

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

```
Sample Input / Output
Input:
2
2 W
3 B
Output:
WB
BW
BWB
WBW
BWB
Answer: (penalty regime: 0 %)
   1 #include <stdio.h>
   2 v int main(){
           int T,d,i,i1,i2,o,z;
    3
           char c,s;
    4
           scanf("%d",&T);
           for (i=0;i<T;i++){</pre>
    6 🔻
               scanf("%d %c",&d,&s);
               for (i1=0;i1<d;i1++){</pre>
    8 🔻
                   z = (s=='W')?0:1;
                   o=(i1%2==z)?0:1;
   10
```

```
14 | } | printf("\n");
16 | } | return 0;
19 |}
```

| | Input | Expected | Got | |
|----------|-------|----------|-----|---|
| ~ | 2 | WB | WB | ~ |
| | 2 W | BW | BW | |
| | 3 B | BWB | BWB | |
| | | WBW | WBW | |
| | | BWB | BWB | |

Passed all tests! ✓

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

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

```
5
Output
Case #1
10203010011012
**4050809
****607
Case #2
1020304017018019020
**50607014015016
****809012013
*****10011
Case #3
102030405026027028029030
**6070809022023024025
****10011012019020021
*****13014017018
******15016
Answer: (penalty regime: 0 %)
      #include <stdio.h>
   2 v int main(){
           int n,v,p3,c,in,i,i1,i2,t,ti;
           scanf("%d",&t);
           for (ti=0;ti<t;ti++){</pre>
```

```
tor (i=0;i<n;i++){</pre>
10
                 c=0;
                 if (i>0){
11 🔻
                      for (i1=0;i1<i;i1++){printf("**");}</pre>
12
13
14
15 🔻
             for (i1=i;i1<n;i1++){</pre>
                 if (i>0)c++;
16
                 printf("%d0",++v);
17
18
19 🔻
             if (i==0){
                 p3=v+(v*(v-1))+1;
20
21
                 in=p3;
22
23
             in = in-c;
24
             p3=in;
             for (i2=i;i2<n;i2++){</pre>
25 🔻
                 printf("%d",p3++);
26
                 if (i2!=n-1) printf("0");
27
             }printf("\n");}
28
29
30
```

| | 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 | |

