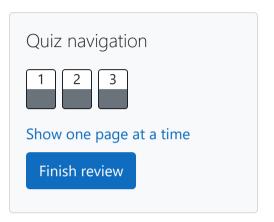
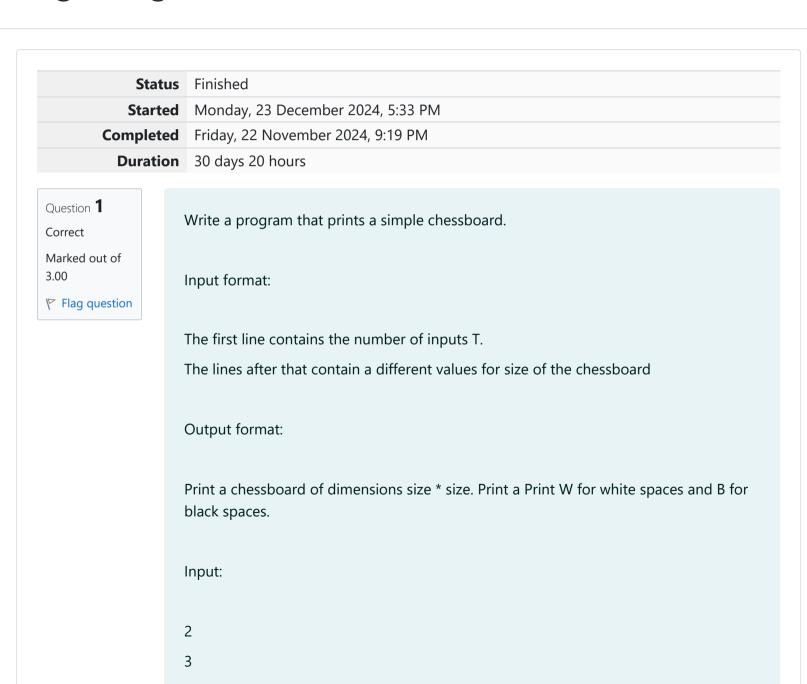
GE23131-Programming Using C-2024





WBW **BWB WBW WBWBW BWBWB WBWBW BWBWB WBWBW Answer:** (penalty regime: 0 %) 1 #include<stdio.h> 2 v int main(){ int t; 3 scanf("%d",&t); for (int k = 0 ; k < t ; k++) { 5 🔻 6 int size ; scanf("%d",&size); 8 🔻 for (int i = 0 ; i < size ; i++) {</pre> for (int j = 0 ; j < size ; j++) { 9 , $if ((i+j)\%2 == 0) {$ 10 🔻 11 printf("W"); 12 🔻 }else { 13 printf("B"); 14 15 16 printf("\n"); 17 18 19 return 0; 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

Print the chessboard as per the given examples

Sample Input / Output

```
3 B
Output:
WB
BW
BWB
WBW
BWB
Answer: (penalty regime: 0 %)
   1 #include<stdio.h>
    2 v int main() {
    3
           int t;
           scanf("%d",&t);
           int size;
           char ch;
   7 🔻
           for ( int k = 0 ; k < t ; k++ ) {
               scanf("%d %c",&size, &ch);
               char first = ch ;
    9
               char second = ( ch == 'W' ) ? 'B': 'W';
  10
   11 1
               for ( int i = 0 ; i < size ; i++ ) {</pre>
  12 🔻
                   for ( int j = 0 ; j < size ; j++ ) {
  13 🔻
                       if ((i+j)\%2 == 0) {
                           printf("%c", first);
  14
  15 v
                       }else {
                            printf("%c", second);
   16
   17
```

2

2 W

21 }
22 return 0;
23 }

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

Passed all tests! ✓

Question $\bf 3$

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:

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

```
Case #1
10203010011012
**4050809
****607
Case #2
1020304017018019020
**50607014015016
****809012013
*****10011
Case #3
102030405026027028029030
**6070809022023024025
****10011012019020021
*****13014017018
******15016
Answer: (penalty regime: 0 %)
   1 #include<stdio.h>
   2 v int main() {
```

```
#include<stdio.h>
int main() {
    int t, n, x, y,i, z = 1, ans, c;
    scanf( "%d",&t );
    while ( z <= t ) {
        scanf("%d",&n );
        printf("Case #%d\n", z);
        y = 1;
        i = 1;
        c = 0;
}</pre>
```

```
14
                ans = ans - c;
                while ( x <= 2*n ) {
15 v
                    if (x \le n)
16 🔻
                        if( x<y )
17
            printf("**");
18
19 🔻
            else if (x <= n){
                printf("%d", i*10);
20
21
            }}else {
22 🔻
                if ((x+y)==(2*n)+1) {
23 🔻
                        printf("%d", (ans+y) );
24
25
                         ans++;
26
                         C++;
27
28 🔻
                else if((x+y) <= (2*n)+1){
29
                    printf("%d",(ans+y)*10);
30
                    ans ++;
31
                    c ++;
32
33
34
        x++;
35
36
                y++;
                printf("\n");
37
38
39
            z++;
40
41 }
```

		Input	Expected	Got	
,	/	3	Case #1	Case #1	~
		3	10203010011012	10203010011012	
		4	**4050809	**4050809	
		5	****607	****607	
			Case #2	Case #2	

