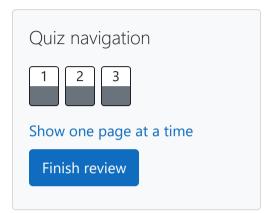
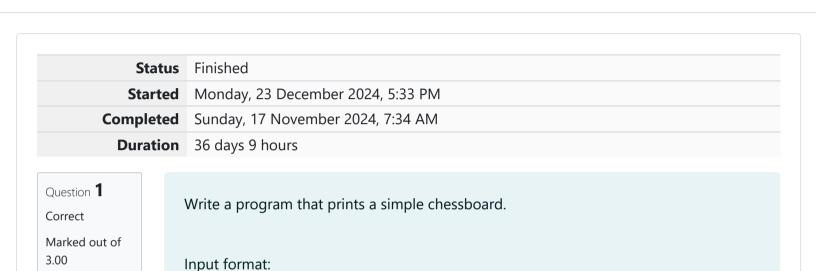
## GE23131-Programming Using C-2024

Flag question

## HARISH.G.D 240801105





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

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

Print the chessboard as per the given examples Sample Input / Output Input: 2 2 W 3 B Output: WB BW **BWB WBW** BWB **Answer:** (penalty regime: 0 %) 1 #include <stdio.h> void printchessboard(int size,char startchar) 3 ▼ for(int i=0;i<size;i++)</pre> 5 ▼ for(int j=0;j<size;j++)</pre> 6 if((i+j)%2==0)

```
13 🔻
                     printf("%C",(startchar=='W')?'B':'W');
14
15
16
            printf("\n");
17
18
19
20
    int main()
21 🔻
22
        int T;
23
        scanf("%d",&T);
24
        while(T--)
25 ,
            int N;
26
            char startchar;
27
            scanf("%d %c",&N,&startchar);
28
29
            printchessboard(N,startchar);
30
        return 0;
31
32
```

	Input	Expected	Got	
<b>~</b>	2	WB	WB	<b>~</b>
	2 W	BW	BW	
	3 B	BWB	BWB	
		WBW	WBW	
		BWB	BWB	

Passed all tests! <

Question  $\bf 3$ 

Decode the logic and print the Pattern that corresponds to given input.

1.00 Flag question 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

In the subsequent line, print the pattern Test Case 1 3 3 4 5 Output Case #1 10203010011012 \*\*4050809 \*\*\*\*607 Case #2 1020304017018019020 \*\*50607014015016 \*\*\*\*809012013 \*\*\*\*\*10011 Case #3 102030405026027028029030 \*\*6070809022023024025 \*\*\*\*10011012019020021

**Answer:** (penalty regime: 0 %)

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

41 }

	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	

Passed all tests! ✓

Finish review