GE23131-Programming Using C-2024

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Status	Finished
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Question 1

Correct

Marked out of 3.00

Flag question

Write a program that prints a simple chessboard.

Input format:

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

5

Output:

WBW

BWB

WBW

WBWBW

BWBWB

WBWBW

BWBWB

WBWBW

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
  int t;
  scanf("%d",&t);
  while(t--){
      int n;
      scanf("%d",&n);
      for(int i=0;i<n;i++){
          for(int j=0;j<n;j++){
              if((i+j)%2==0)
              printf("W");
              else
              printf("B");
          }
          printf("\n");
      }
      }return 0;
  }
```

	Input	Expected	Got	
✓	2	WBW	WBW	✓
	3	BWB	BWB	
	5	WBW	WBW	
		WBWBW	WBWBW	
		BWBWB	BWBWB	
		WBWBW	WBWBW	
		BWBWB	BWBWB	

		WBWBW BWBWB WBWBW	WBWBW BWBWB 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

Input:

2

2 W

3 B

Output:

WB

BW

BWB

WBW

BWB

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
int main(){
    int t;
    scanf("%d",&t);
    while(t--)
    {
        int n;char opp,ch;
        scanf("%d %c",&n, &ch);
        for(int i=0;i<n;i++)
        {
            for(int j=0;j<n;j++)
            {


                opp=(ch=='W')?'B':'W'
                if((i+j)%2==0){
                printf("%c",ch);
            }
            else
            printf("%c",opp);
            }
            printf("\n");
        }
    }return 0;
}
```

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

****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

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

Output

Case #1

10203010011012

**4050809

****607

Case #2

1020304017018019020

**50607014015016

****809012013

******10011

Case #3

10203040502602702802 9030

**6070809022023024025

****10011012019020021

******13014017018

********15016

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
  int n;
  scanf("%d",&n);
  for( int i=1;i<=n;i++){
      int a;
      scanf("%d",&a);
      int l=1,s=a,t=(a*(a+1))-a+1;
      printf("Case #%d\n",i);
      for(int j=0;j<a;j++){
          int k=2*j,t1=t;
          while(k>0){
              printf("%c",'*');
              k-=1;
          }
          for(int p=0;p<s;p++){
              printf("%d",l);
              l+=1;
              printf("%d",0);
          }
          for(int q=0;q<s;q++){
              printf("%d",t1);
              t1+=1;
              if(q==(s-1)){
                  break;
              }
              printf("%d",0);
          }
          s-=1;
          t-=s;
          printf("\n");
      }
  }
  return 0;
}
```

	Input	Expected	Got
✓	3 3 4 5	Case #1 10203010011012 **4050809 ****607 Case #2 1020304017018019020 **50607014015016 ****809012013 ******10011 Case #3 10203040502602702802903 0 **6070809022023024025 ****10011012019020021 ******13014017018 ********15016	Case #1 102030100110 **4050809 ****607 Case #2 102030401701 **5060701401 ****80901201 ******10011 Case #3 102030405026 **6070809022 ****10011012 ******130140 ********1501

Passed all tests! ✓