GE23131-Programming Using C-2024

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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Tuesday, 10 December 2024, 9:05 AM
Duration	13 days 8 hours

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,d,i1=0,i,j,k;
  char c;
  scanf("%d",&t);
  while(i1<t)
  { scanf("%d",&d);
    i=0;
      while( i<d)
      {   k=1;
          j=0;
          if(i%2==0)
          {k=0;}
          while(j<d)
          {
          c='B';
          if(j%2==k)
          {c='W';}
          printf("%c",c);
          j++;

      }
      i=i+1;
      printf("\n");

  }

  i1+=1;
}
}

```

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

```c
#include<stdio.h>
int main()
{ int t,d,i1,i,j,k,z;
  char c,s;
  scanf("%d",&t);
  for(i1=0;i1<t;i1++)
  {  scanf("%d %c",&d,&s);
  for(i=0;i<d;i++)
  {  z=(s=='W') ?0:1;
     k=(i%2==z) ?0:1;
     for(j=0;j<d;j++)
     { c=(j%2==k) ? 'W':'B';
     printf("%c",c);
     }
     printf("\n");
  }

  }

}
```

	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,v,p,c,in,i1,i,j,t,s;
  scanf("%d",&t);
  for(s=0;s<t;s++)
  { v=0;
    scanf("%d",&n);
    printf("Case #%d\n",s+1);
    for(i1=0;i1<n;i1++)
    { c=0;
      if(i1>0)
       {
          for(i=0; i<i1;i++) printf("**");
       }
      for(i=i1;i<n;i++)
      { if(i1>0) c++;
        printf("%d0",++v);
      }
      if(i1==0)
       {
          p=v+(v*(v-1))+1;
          in=p;
       }
       in=in-c;
       p=in;
       for(j=i1;j<n;j++)
       {printf("%d",p++);
        if(j!=n-1) printf("0");
       }
       printf("\n");
    }
  }
}
```

	Input	Expected	Got	
✓	3 3 4 5	Case #1 10203010011012 **4050809 ****607 Case #2 1020304017018019020 **50607014015016 ****809012013	Case #1 10203010011012 **4050809 ****607 Case #2 1020304017018019020 **50607014015016 ****809012013	✓

		******10011 Case #3 10203040502602702802903 **6070809022023024025 ****10011012019020021 ******13014017018 ********15016	******10011 Case #3 10203040502602702802903 **6070809022023024025 ****10011012019020021 ******13014017018 ********15016	

Passed all tests! ✓