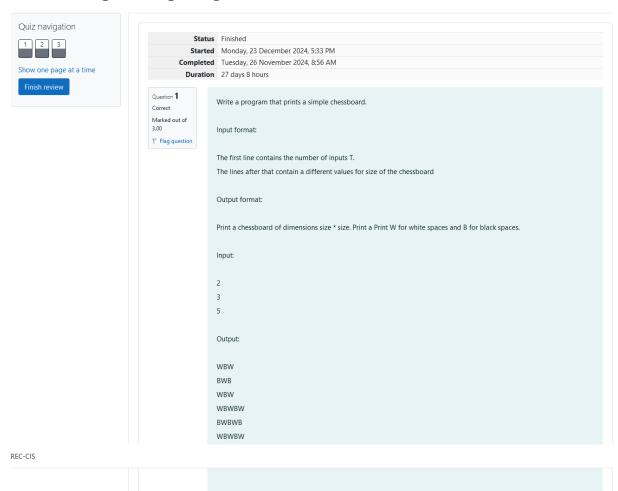
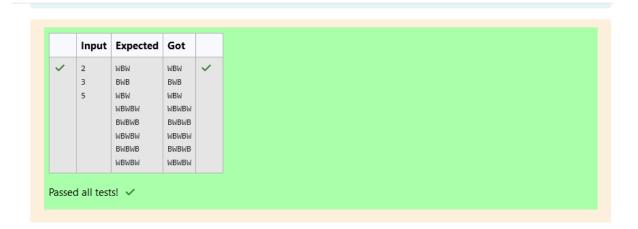
## Week-05-Nested Loops - while and for, Jumps in Loops

GE23131-Programming Using C-2024



Answer: (penalty regime: 0 %)

```
Answer: (penalty regime: 0 %)
   1 #include <stdio.h>
       void printchessboard(int size){
   3 +
            for(int i=0;i<size;i++){</pre>
                 for(int j=0; j<size;j++){</pre>
   4 ,
                     if((i+j)%2==0){
   5 -
   6
                         printf("W");
   7
   8
                     else{
                         printf("B");
   9
  10
  11
                 }printf("\n");
  12
  13
  14
  15
       int main(){
           int T;
scanf("%d",&T);
while (T--){
  16
  17
  18
               int size;
  19
                scanf("%d",&size);
printchessboard(size);
  20
  21
  22
                if (T>0){
  23
   24
   25
                }
   26
  27
            return 0;
```



Question 2
Correct
Marked out of 5.00

F 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

Output:

WB

BW

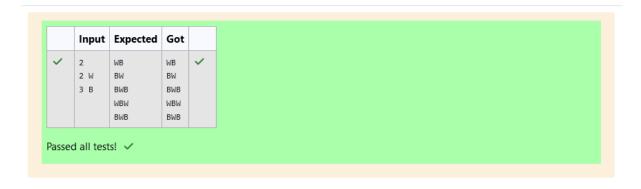
BWB

WBW

BWB

Answer: (penalty regime: 0 %)

```
Answer: (penalty regime: 0 %)
     1 #include <stdio.h>
     2 ,
          int main(){
                int T,n;
     3
               int T,n;
char m;
scanf("%d",&T);
for (int i=0;i<T;i++){
    scanf("%d",&n);
    scanf(" %c",&m);
    for(int j=0;j<n;j++){
        for(int k=0;k<n;k++){
            if ((j+k)%2==0)</pre>
     4
     5
     6
     7
     8
    9
   10
                                   if ((j+k)%2==0)
printf("%c",m);
   11
   12
                                    else
   13
                                          if (m=='W'){
   14
                                          printf("B");
}else
   15
   16
                                          printf("W");
   17
   18
                              printf("\n");
   19
   20
   21
   22
   23
   24
   25
                 return 0;
          }
   26
   27
```



Question **3**Correct
Marked out of 7.00

P 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
```

```
******10011

Case #3

102030405026027028029030

**6070809022023024025

****10011012019020021

*******13014017018

********15016

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

```
Answer: (penalty regime: 0 %)
    1 #include <stdio.h>
        int main(){
    2 ,
            int n,v,p,c,in,i,i1,i2,t,t1;
scanf("%d",&t);
for(t1=0;t1<t;t1++){</pre>
    4
    5
    6
                  scanf("%d",&n);
printf("Case #%d\n",t1+1);
    7
    8
                  for(i=0;i<n;i++){
    9
  10
                      c=0;
                      if(i>0){}
  11
                           for(i1=0;i1<i;i1++) printf("**");</pre>
  12
  13
  14
                       for (i1=i;i1<n;i1++){
  15
                           if(i>0)c++;
printf("%d0",++v);
  16
  17
  18
                       if(i==0){
  19
                           p=v+(v*(v-1))+1;
  20
                           in=p;
  21
   22
                      in=in-c;
  23
  24
                      p=in;
   25
                      for (i2=i;i2<n;i2++){</pre>
                           printf("%d",p++);
if(i2!=n-1) printf("0");
  26
   27
                      }printf("\n");
   28
   29
```

	Input	Expected	Got	
<b>~</b>	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! 🗸

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