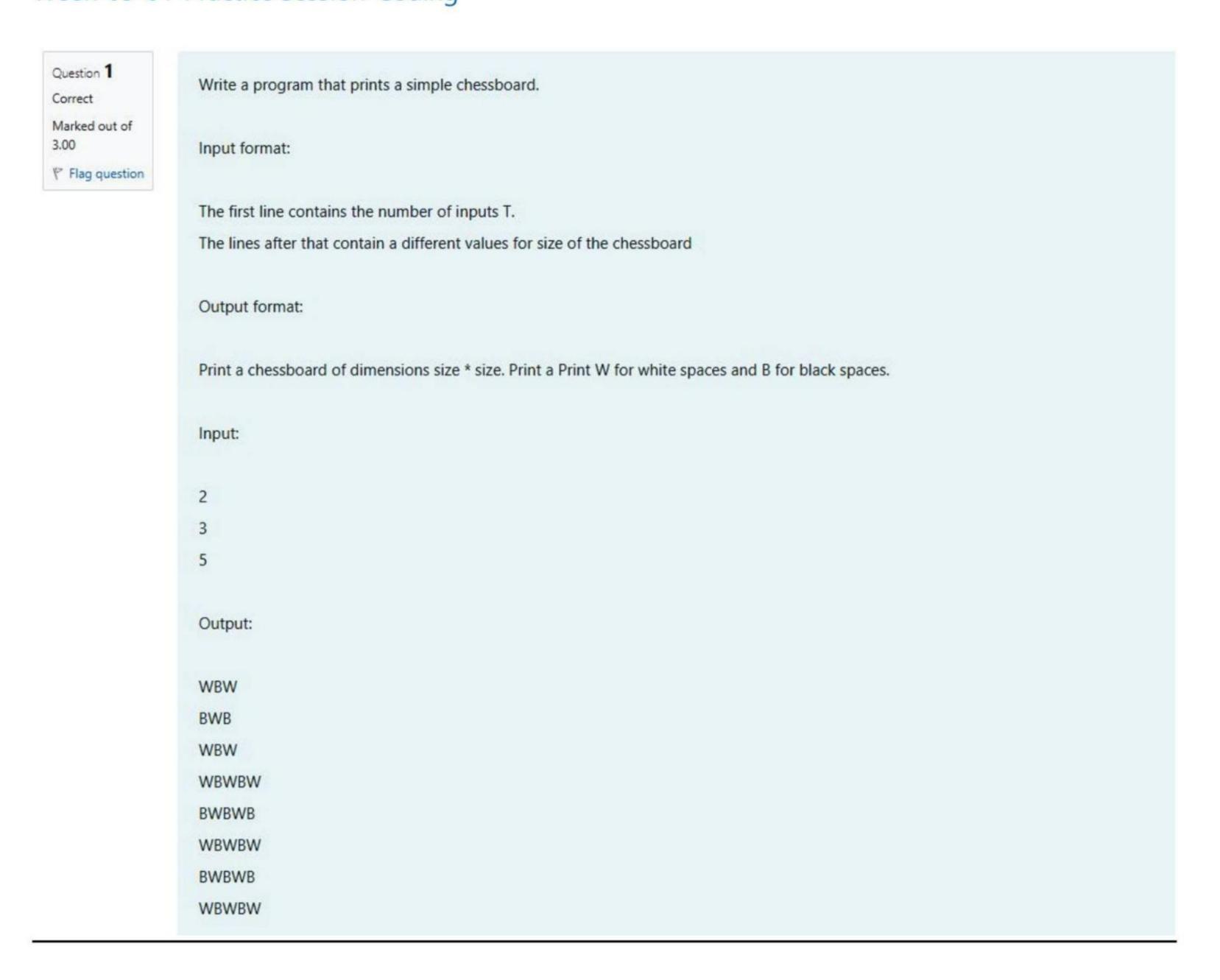
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# Week-05-Nested Loops - while and for, Jumps in Loops

## Week-05-01-Practice Session-Coding

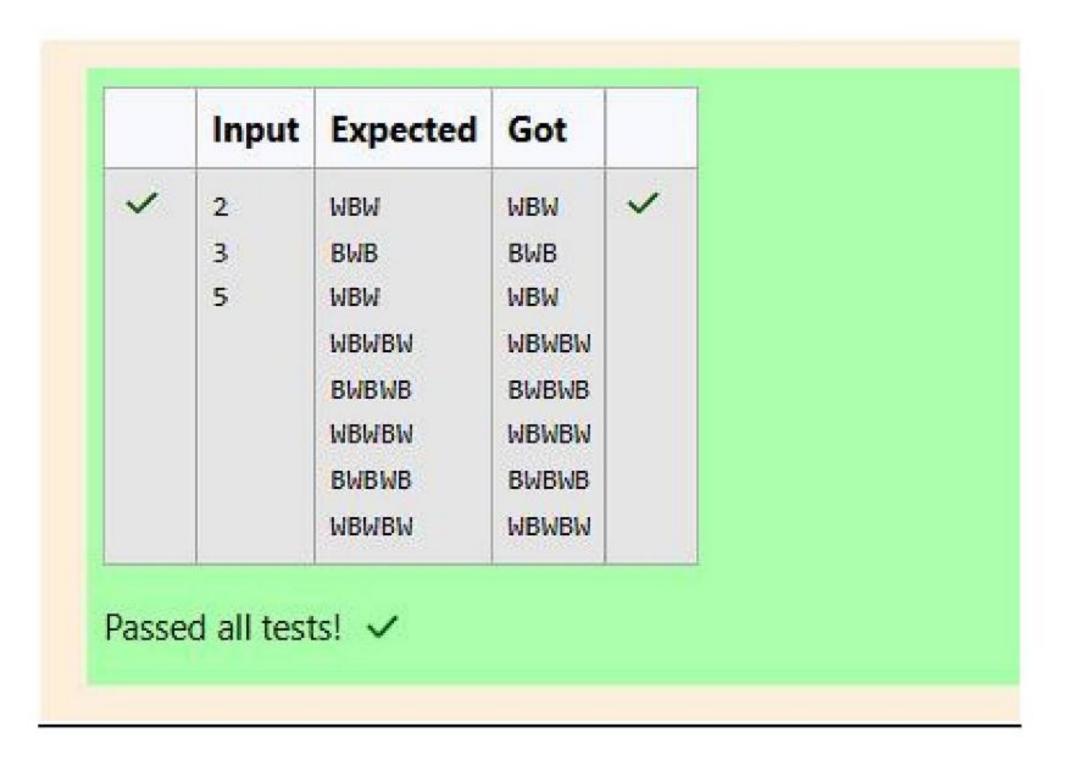


Source code

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
2
 3 v int main(){
        int t,arr[100];
 4
        scanf("%d",&t);
 6
        for(int i=0;i<t;i++){
7 +
            scanf("%d",&arr[i]);
8
9
10
        for(int z=0;z<t;z++){
11 +
            for(int j=0;j<arr[z];j++){
12 *
                for(int i=0;i<arr[z];i++){
13 +
                    if((i+j)\%2==0){
14 ,
                        printf("W");
15
16
                    else{
17 *
                         printf("B");
18
19
20
                printf("\n");
21
22
23
        return 0;
24
25
```

Result



Question 2 Let's print a chessboard! Correct Marked out of 5.00 Write a program that takes input: Flag question 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>
 3 * int main(){
        int t, arr[100];
 4
        char ch[100];
        scanf("%d",&t);
        for(int i=0;i<t;i++){
 7 *
            scanf("%d %c",&arr[i],&ch[i]);
        for(int z=0;z<t;z++){
10 v
            for(int j=0;j<arr[z];j++){</pre>
11 *
                 for(int i=0;i<arr[z];i++){
12 *
                     if((i+j)\%2==0){
13 *
                         printf("%c",ch[z]);
14
15
                     else{
16 *
                         if(z>0){
17 *
                             printf("%c",ch[z-1]);
18
19
                         else{
20 +
                             printf("%c",ch[z+1]);
21
22
23
24
                 printf("\n");
25
26
27
        return 0;
28
29
```

### Result

		Expected		
/	2	WB	WB	~
	2 W	BW	BW	
	3 B	BWB	BWB	
		WBW	WBW	
		BWB	BWB	

Question 3 Decode the logic and print the Pattern that corresponds to given input. Correct Marked out of 7.00 If N= 3 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 First line print Case #i where i is the test case number In the cubcaculant line print the nottern

#### Source code

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
 3 * int main(){
        int n;
4
        scanf("%d",&n);
        for(int i=1;i<=n;i++){
 6 +
            int a;
            scanf("%d",&a);
            int l=1, s=a, t=(a*(a+1))-a+1;
9
            printf("Case #%d\n",i);
10
            for(int j=0;j<a;j++){
11 +
                int k=2*j,t1=t;
12
                while(k>0){
13 +
                    printf("%c",'*');
14
15
                    k=1;
16
                for(int p=0;p<s;p++){
17 +
                     printf("%d",1);
18
19
                    1+=1;
                     printf("%d",0);
20
21
                for(int q=0;q<s;q++){
22 *
                     printf("%d",t1);
23
24
                    t1+=1;
                     if(q==(s-1)){
25 *
                         break;
26
27
                    printf("%d",0);
28
29
                s-=1;
30
31
                t-=5;
                printf("\n");
32
33
34
        return 0;
35
36
```

#### Result

	Input	Expected	Got	
<b>V</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	