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|------------------|-----------------------------------|
| Status | Finished |
| Started | Monday, 23 December 2024, 5:33 PM |
| Completed | Friday, 22 November 2024, 5:09 AM |
| Duration | 31 days 12 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:

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

```
1 #include<stdio.h>
2 int main()
3 {
4     int T,d,i=0,i1,i2,o;
5     char c;
6     scanf("%d\n",&T);
7     while(i<T)
8     {
9         scanf("%d",&d);
10        i1=0;
11        while(i1<d)
12        {
13            o=1;
14            i2=0;
15            if(i1%2==0)
16            {
17                o=0;
18            }
19            while(i2<d){
20                c='B';
21                if(i2%2==o)c='W';
22                printf("%c",c);
23                i2++;
24            }
25
26            i1+=1;printf("\n");
27        }
28        i=i+1;
29    }
30 }
31
```

| | 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

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

r: (penalty regime: 0 %)

```
#include<stdio.h>
int main()
{
    int T,d,i,i1,i2,o,z;
    char c,s;
    scanf("%d",&T);
    for(i=0;i<T;i++)
    {
        scanf("%d %c",&d,&s);
        for(i1=0;i1<d;i1++)
        {
            z=(s=='W')?0:1;
            o=(i1%2==z)?0:1;
            for(i2=0;i2<d;i2++)
            {
                c=(i2%2==o)?'W':'B';
                printf("%c",c);
            }
            printf("\n");
        }
    }
    return 0;
}
```

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

Passed all tests! ✓

If $N = 4$, then pattern will be:

1020304017018019020

**50607014015016

****809012013

*****10011

Constraints

$2 \leq N \leq 100$

Input Format

First line contains T , the number of test cases

Each test case contains a single integer N

Output

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

102030405026027028029030

**6070809022023024025

****10011012019020021

*****13014017018

*****15016

Answer: (penalty regime: 0 %)

```
1  #include<stdio.h>
2  int main(){
3      int n,v,p3,c,in,i,i1,i2,t,ti;
4      scanf("%d",&t);
5      for(ti=0;ti<t;ti++){
6          v=0;
7          scanf("%d",&n);
8          printf("Case #%d\n",ti+1);
9          for(i=0;i<n;i++){
10             c=0;
11             if(i>0){
```

```

12         for(i1=0;i1<i;i1++)printf("***");
13     }
14     for(i1=i;i1<n;i1++){
15         if(i>0)c++;
16         printf("%d0",++v);
17     }
18     if(i==0){
19         p3=v+(v*(v-1))+1;
20         in=p3;
21     }
22     in=in-c;
23     p3=in;
24     for(i2=i;i2<n;i2++){
25         printf("%d",p3++);
26         if(i2!=n-1)printf("0");
27     }printf("\n");
28 }
29 }
30 }

```

| | Input | Expected | Got | |
|---|-------|----------------|----------------|---|
| ✓ | 3 | Case #1 | Case #1 | ✓ |
| | 3 | 10203010011012 | 10203010011012 | |
| | 4 | **4050809 | **4050809 | |
| | 5 | ****607 | ****607 | |
| | | Case #2 | Case #2 | |

Quiz navigation



Show one page at a time

Finish review

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Question **1**

Correct

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🚩 Flag question

The k -digit number N is an Armstrong number if and only if the k -th power of each digit sums to N .

Given a positive integer N , return true if and only if it is an Armstrong number.

Example 1:

Input:

153

Output:

true

Explanation:

153 is a 3-digit number, and $153 = 1^3 + 5^3 + 3^3$.

Example 2:

Input:

123

Output:

false

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true

Note:

$1 \leq N \leq 10^8$

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 #include<math.h>
3 int main()
4 {
5     int n;
6     scanf("%d",&n);
7     int x=0,n2=n;
8     while (n2!=0)
9     {
10         x++;
11         n2=n2/10;
12     }
13     int sum=0;
14     int n3=n,n4;
15     while(n3!=0)
16     {
17
```

```
18     n4=n3%10;
19     sum=sum+pow(n4,x);
20     n3=n3/10;
21
22 }
23 if(n==sum)
24 {
25     printf("true");
26 }
27 else
28 {
29     printf("false");
30 }
31 return 0;
32 }
```

| | Input | Expected | Got | |
|---|-------|----------|-------|---|
| ✓ | 153 | true | true | ✓ |
| ✓ | 123 | false | false | ✓ |

Passed all tests! ✓

Question 2

Correct

Marked out of
5.00

Flag question

Take a number, reverse it and add it to the original number until the obtained number is a palindrome.

Constraints $1 \leq \text{num} \leq 99999999$ Sample Input 1 32 Sample Output 1 55 Sample Input 2 789 Sample Output 2 66066

Answer: (penalty regime: 0 %)

```
1  #include<stdio.h>
2  int main()
3  {
4      int rn,n,nt=0,i=0;
5      scanf("%d",&n);
6      do{
7          nt=n;rn=0;
8          while(n!=0)
9          {
10             rn=rn*10+n%10;
11             n=n/10;
12
13         }
14         n=nt+rn;
15         i++;
16
17     }
18     while(rn!=nt || i==1);
19     printf("%d",rn);
20     return 0;
21 }
```


| | Input | Expected | Got | |
|---|-------|----------|-------|---|
| ✓ | 32 | 55 | 55 | ✓ |
| ✓ | 789 | 66066 | 66066 | ✓ |

Passed all tests! ✓

Question **3**

Correct

Marked out of
7.00

🚩 Flag question

A number is considered lucky if it contains either 3 or 4 or 3 and 4 both in it. Write a program to print the nth lucky number. Example, 1st lucky number is 3, and 2nd lucky number is 4 and 3rd lucky number is 33 and 4th lucky number is 34 and so on. Note that 13, 40 etc., are not lucky as they have other numbers in it.

The program should accept a number 'n' as input and display the nth lucky number as output.

Sample Input 1:

3

Sample Output 1:

33

Explanation:

Here the lucky numbers are 3, 4, 33, 34., and the 3rd lucky number is 33.

Sample Input 2:

34

Sample Output 2:

33344

```
1  #include<stdio.h>
2  int main()
3  {
4      int n=1,i=0,nt,co=0,e;
5      scanf("%d",&e);
6      while(i<e)
7      {
8          nt=n;
9          while(nt!=0)
10         {
11             co=0;
12             if(nt%10!=3&&nt%10!=4)
13             {
14                 co=1;
15                 break;
16             }
17             nt=nt/10;
18         }
19         if(co==0)
20         {
21             i++;
22         }
23         n++;
24     }
25     printf("%d",--n);
26     return 0;
27 }
28 }
```

| | Input | Expected | Got | |
|---|-------|----------|-------|---|
| ✓ | 34 | 33344 | 33344 | ✓ |

Passed all tests! ✓