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**

```
1 #include <stdio.h>
 int main()
{
 4
         int T,d,i=0,i1,i2,0;
        char c;
scanf("%d",&T);
while(i<T)</pre>
 5
 6
 7
 8 *
             scanf("%d",&d);
 9
             i1=0;
while(i1<d)
10
11
12 •
                 0=1;
13
                 i2=0;
14
15
                 if(i1%2==0)
16
                 {
17
                     0=0;
18
                 while(i2<d)
19
20
                      c='B';
21
                     if(i2%2==0)
22
23
                         c='W';
24
25
                     printf("%c",c);
26
27
                     i2++;
28
                 i1+=1;
printf("\n");
29
30
31
32
             i=i+1;
33
34
         return 0;
35 }
```

	Input	Expected	Got	
_	2	WBW	WBW	/
Ť	_			

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 %)
    1 #include <stdio.h>
    2 int main()
    3 ▼ {
             int o,t,d,i,i1,i2,z;
    4
            char c,s;
scanf("%d",&t);
for(i=0;i<t;i++)</pre>
    5
    6
    7
    8 ,
                  scanf("%d %c",&d,&s);
    9
                  for(i1=0;i1<d;i1++)</pre>
   10
   11 1
                      z=(s=='W')?0:1;
o=(i1%2==z)?0:1;
   12
   13
                      for(i2=0;i2<d;i2++)
   14
   15 🔻
                           c=(i2%2==o)?'W':'B';
printf("%c",c);
   16
   17
   18
   19
                      printf("\n");
   20
   21
   22
             return 0;
   23 }
```

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

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

```
#include <stdio.h>
 2
     int main()
 3 🔻
     {
          int n,v,p3,c,in,i,i1,i2,t,ti;
scanf("%d",&t);
 4
 5
          for(ti=0;ti<t;ti++){</pre>
 6 ,
 7
              v=0;
              scanf("%d",&n);
printf("Case #%d\n",ti+1);
 8
 9
10
              for(i=0;i<n;i++){</pre>
11
                   c=0;
                   if(i>0){
12 1
                        for(i1=0;i1<i;i1++){</pre>
13
                             printf("**");
14
15
16
                   for(i1=i;i1<n;i1++){
17
18
                       if(i>0)c++;
printf("%d0",++v);
19
20
                   if(i==0){
21
                        p3=v+(v*(v-1))+1;
22
23
                        in=p3;
24
                   in=in-c;
25
26
                   p3=in;
                   for(i2=i;i2<n;i2++){
    printf("%d",p3++);</pre>
27
28
29
                        if(i2!=(n-1))printf("0");
30
31
                   printf("\n");
32
33
34
          return 0;
35 }
```

	Input	Expected	Got	
~	3	Case #1	Case #1	~
	3	10203010011012	10203010011012	

Question **1**Correct
Marked out of 3.00

Flag question

Output:

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:

```
Answer: (penalty regime: 0 %)
   #include <stdio.h>
#include <math.h>
    3 * int main(){
            int n;
scanf("%d",&n);
int x=0,n2=n;
while (n2!=0)
   5
    6
    7
    8 ,
    9
                 X++;
                 n2/=10;
   10
   11
             int sum=0;
int n3=n,n4;
  12
  13
            while (n3!=0)
  14
  15 🔻
                 n4=n3%10;
   16
  17
                 sum+=pow(n4,x);
                 n3/=10;
  18
  19
   20
             if (n==sum)
   21 1
                 printf("true");
   22
   23
   24
              printf("false");
   25
   26
             return 0;
   27 }
```

	Input	Expected	Got	
~	153	true	true	~
~	123	false	false	~

Passed all tests! ✓

Question **2**Correct
Marked out of 5.00

Flag question

Answer: (penalty regime: 0 %)

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

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:
Sample Output 2: 33344

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