



Question 3 Decode the logic and print the Pattern that corresponds to given input. Correct Marked out of 7.00 If N= 3 F Flag question then pattern will be: 10203010011012 \*\*\*\*607 If N= 4, then pattern will be: 1020304017018019020 \*\*50607014015016 \*\*\*\*809012013 \*\*\*\*\*10011 2 <= N <= 100 Input Format First line contains T, the number of test cases Each test case contains a single integer N First line print Case #i where i is the test case number

In the subsequent line, print the pattern Test Case 1 3 3 5 Output Case #1 10203010011012 \*\*4050809 \*\*\*\*607 1020304017018019020 \*\*50607014015016 \*\*\*\*809012013 \*\*\*\*\*10011 Case #3 102030405026027028029030 \*\*6070809022023024025 \*\*\*\*10011012019020021 \*\*\*\*\*\*15016 Answer: (penalty regime: 0 %)

```
1 |#include <stdio.h>
             int n,v,p3,c,in,i,i1,i2,t,ti;
scanf("%d",&t);
for(ti=0;ti<t;ti++)</pre>
                 v=0;
scanf("%d",&n);
                 printf("Case #%d\n",ti+1);
for(i=0;i<n;i++)</pre>
 10
11
 12
13
14
15
                       if(i>0)
{
                            for(i1=0;i1<i;i1++)
 16
17
                                printf("**");
 18
19
 20
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41
                       for(i1=i;i1<n;i1++)
                            if(i>0)
                           {
C++;
                            printf("%d0",++v);
                      }
if(i==0)
                            p3=v+(v*(v-1))+1;
in=p3;
                       p3=in;
for(i2=i;i2<n;i2++)
                            printf("%d",p3++);
if(i2!=n-1)
                           {
    printf("0");
 42
43
44
45
                      }
}printf("\n");
            return 0;
       Input Expected
                                              Case #1
10203010011012
               10203010011012
               **4050809
****607
                                              **4050809
****607
               Case #2
                                               Case #2
               1020304017018019020
                                               1020304017018019020
               **50607014015016
                                               **50607014015016
               ****809012013
                                               ****809012013
               *****10011
                                               *****10011
               102030405026027028029030 102030405026027028029030
                **6070809022023024025
                                               **6070809022023024025
               ****10011012019020021
                                               ****10011012019020021
               *****13014017018
                                               *****13014017018
               ******15016
                                               ******15016
Passed all tests! ✓
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Question 1 The k-digit number N is an Armstrong number if and only if the k-th power of each digit sums to N. Marked out of 3.00 Given a positive integer N, return true if and only if it is an Armstrong number. Flag question Example 1: Input: Output: true Explanation: 153 is a 3-digit number, and 153 = 1^3 + 5^3 + 3^3. Example 2: Input: 123 Output: Explanation: 123 is a 3-digit number, and 123 != 1^3 + 2^3 + 3^3 = 36. Example 3: Input: 1634 Output: true Note: 1 <= N <= 10^8 Answer: (penalty regime: 0 %)



