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**NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » An Introduction To Programming Through C++**

**(course)**

Announcements (announcements)

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Progress (student/home)      Mentor (student/mentor)

# Week 1 - Programming Assignment 2

**Due on 2020-02-12, 23:59 IST**

Write a program that reads in a number and prints out the letter T using '*' characters with each line in the T having width n.  Further, the length of the horizontal bar should be 3n, and that of the vertical bar 2n.  Thus for n=3 your program should print

```
* * * * * * * *
* * * * * * * *
* * * * * * * *
      * * *
      * * *
      * * *
      * * *
      * * *
      * * *
```

**Sample Test Cases**

| | Input | Output |
|---|---|---|
| Test Case 1 | 2 | ```* * * * * *```<br>```* * * * * *```<br>```  * *```<br>```  * *```<br>```  * *```<br>```  * *``` |

Test Case 2

3

```
* * * * * * * *
* * * * * * * *
* * * * * * * *
       * * *
       * * *
       * * *
       * * *
       * * *
       * * *
```

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment.

Sample solutions (Provided by instructor)

```cpp
1  #include <iostream>
2  #define repeat(x) for(int _iterator_i = 0, _iterator_limit = x; _iterat
3  #define main_program int main()
4  #include <cmath>
5  using namespace std;
6  main_program{
7    int n;
8    cin >> n;
9  // print the horizontal bar
10   repeat(n){
11     repeat(3*n){
12       cout <<'*';
13     }
14     cout << endl;
15   }
16  // print the vertical bar
17   repeat(2*n){
18     repeat(n){
19       cout <<' '; // print blank
20     }
21     repeat(n){
22       cout <<'*';
23     }
24     cout << endl;
25   }
26  }
```

**Week 4**

**Week 5**

**Week 6**

**Week 7**

**Week 8**

**Week 9**

**Week 10**

**Week 11**

**Week 12**

**Text Transcripts**