ESC101: Fundamental of computing

Quiz 3(B) 6 November, 2008

Name:

Roll no: Section:

Duration: 20 minutes

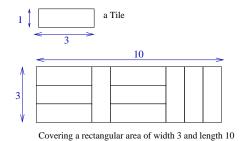
 NOTE : There are TWO questions, flip the front page to read the second question

Answer:

Question 2 (marks=5)

}

We have a large collections of identical rectangular 3×1 tiles (length of each tile is 3 units and width is 1 unit). We want to cover a given $3 \times n$ rectangular area using these tiles. A tile may be placed horizontally or vertically while covering an area. There may be various possible ways to do so. For example, Figure given below gives one possible covering of a 3×10 rectangular area by the tiles.



You have to write a method PossibleTilings (int n) which counts the number of ways to cover a $3 \times n$ rectangular area using the 3×1 tiles. Assume that n takes positive values only.

```
public static int PossibleTilings(int n)
{
```

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