Stars Example | Coursera

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Now that we have seen how to translate our generalized steps into code, we can finish our earlier examples. We will start with the simpler one, the triangle of stars. We see here the code, as the translation of our generalized steps from earlier (which are placed in the code as comments—each line corresponds to the directions from the algorithm on the line right before it):

```
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```

```
// prints i stars
void printIStars(int i) {
  // Count (call it j) from 1 to i (inclusive)
  for (int j = 1; j <= i; j++) {
    // Print a star
    printf("*");
  }
}

// prints a triangle of n stars
void printStarTriangle(int n) {
  // Count (call it i) from 1 to n (inclusive)
  for (int i = 1; i <= n; i++) {
    // Print i stars
    printIStars (i);
    // Print a newline
    printf("\n");
  }
}
```

Note how we abstracted out **printIStars**. The resulting function is small enough and simple enough that we would have been justified in writing it inline if we saw exactly how to do it right away. However, there is nothing wrong with pulling it out into its own function and solving it separately. In fact, if it is not immediately obvious what to write to translate it, abstracting it out is exactly what you should do.