

Java Foundations



Exercises for: Methods in Java Defining and Using Methods.

Overloads



Problem: Sign of Integer Number



Create a method that prints the sign of an integer number n:



O The number 0 is zero.

Problem: Grades



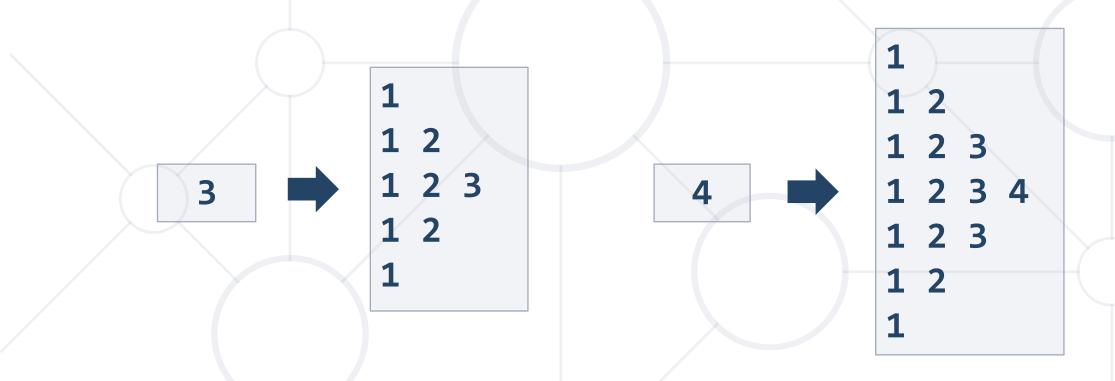
 Write a method that receives a grade between 2.00 and 6.00 and prints the corresponding grade in words



Problem: Printing Triangle



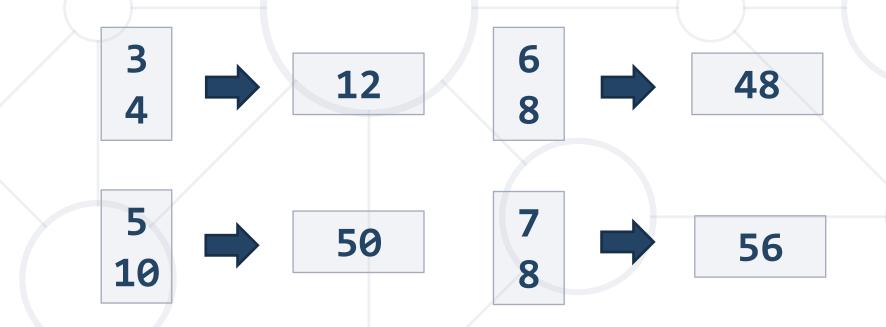
Create a method for printing triangles as shown below:



Problem: Calculate Rectangle Area



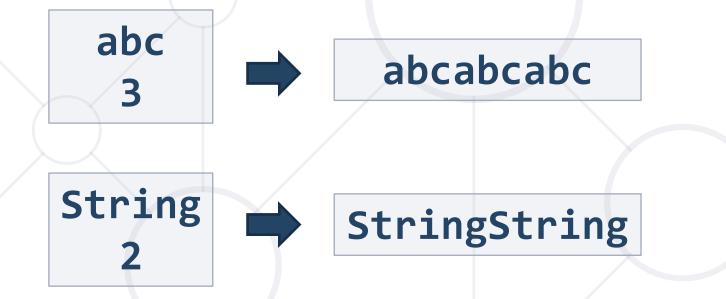
Create a method which returns rectangle area
 with given width and height



Problem: Repeat String



- Write a method that receives a string and a repeat count n
- The method should return a new string



Problem: Math Power



 Create a method that calculates and returns the value of a number raised to a given power

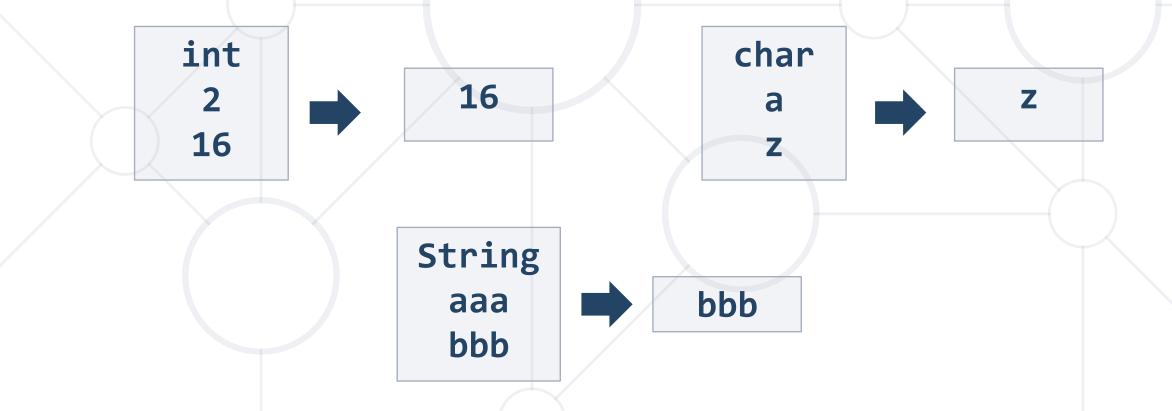


```
public static double mathPower(double number, int power) {
   double result = 1;
   for (int i = 0; i < power; i++)
     result *= number;
   return result;
}</pre>
```

Problem: Greater of Two Values



 Create a method getMax() that returns the greater of two values (the values can be of type int, char or String)



Problem: Multiply Evens by Odds



- Create a program that multiplies the sum of all even digits of a number by the sum of all odd digits of the same number:
 - Create a method called getMultipleOfEvensAndOdds()
 - Create a method getSumOfEvenDigits()
 - Create getSumOfOddDigits()
 - You may need to use Math.abs() for negative numbers

-12345

Evens: 2 4 Odds: 1 3 5



Even sum: 6
Odd sum: 9



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Next Steps



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