

Homework 5 - Functions

In this homework you are going to get the chance to write functions in Java

Part 1

In this part you will write create a new class called called Part1 and create 26 functions. The name of each function should be a letter of the alphabet in lower case. The job of each function is to print out the text that corresponds to the picture in "Food alphabet lis.pdf". Lastly all functions should have the prototype

```
public static void name()
```

remember to delete the main method before submitting

Part 2

In this part you will write 5 functions with the following prototypes

```
public static double quadratic(int a, int b, int c, boolean isPositive)
```

```
public static int add(int a, int b)
```

```
public static int sub(int a, int b)
```

```
public static int mult(int a, int b)
```

```
public static int intDiv(int a, int b)
```

remember to delete the main method before submitting

Part 3

In this part you will write 3 functions with the following prototypes

```
public static int factorial(int n)
```

```
public static int fib(int n)
```

```
public static int fibFast(int n)
```

Try to do a little research and determine the recursive algorithms for factorial and fibonacci and use those in the first 2. In fibFast "should" have the same output fib but we will be testing it with large numbers. Try to implement fibFast without recursion

remember to delete the main method before submitting