

Parsons Problems — Week 2

Basic Java Types · Problem 1 of 2

Problem 1 — Vending machine change

Rearrange the slips to form a complete Java program that reads a price and an amount paid, both as command-line arguments, and prints the change due.

Example: \$ java VendingMachine 3.50 5.00 prints Change due: \$1.5.

2 of the slips are distractors — they look plausible but do not belong in the solution.

```
System.out.println("Change due: $" + change);
```

```
System.out.println("Change due: $" + price);
```

```
double change = paid - price;
```

```
double change = price - paid;
```

```
double paid = Double.parseDouble(args[1]);
```

```
double price = Double.parseDouble(args[0]);
```

```
public class VendingMachine {
```

```
public static void main(String[] args) {
```

```
}
```

```
}
```

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Problem 2 — Pizza party split

Rearrange the slips to form a complete Java program that reads a number of pizza slices and a number of friends, both as command-line arguments, and prints how many slices each friend gets and how many slices are left over.

Example: `$ java PizzaParty 10 3` produces:

```
Each friend gets 3 slices.  
1 slices left over.
```

2 of the slips are distractors — they look plausible but do not belong in the solution.

```
System.out.println("Each friend gets " + leftover + " slices.");
```

```
System.out.println("Each friend gets " + slicesEach + " slices.");
```

```
System.out.println(leftover + " slices left over.");
```

```
int friends = Integer.parseInt(args[1]);
```

```
int leftover = slices % friends;
```

```
int slices = Integer.parseInt(args[0]);
```

```
int slicesEach = slices % friends;
```

```
int slicesEach = slices / friends;
```

```
public class PizzaParty {
```

```
    public static void main(String[] args) {
```

```
    }
```

```
}
```