



### Payara Code Puzzle #3

(Don't worry – It's not assessed!)

Hi,

This is the third in a small series of code-based puzzles being released monthly for you to solve, or maybe just ponder.

Some programming languages are described as pass-by-reference, and others as pass-by-value. This can have a significant impact on how functions are used in the language. What will be printed by the following code?

```
public static void main (String[] args) {
    Person person = new Person("Dave");
    modifyPerson(person);
    changePerson(person);
    System.out.println(person.getName());
}

public static void modifyPerson(Person person) {
    person.setName("Louise");
}

public static void changePerson(Person person) {
    person = new Person("Luke");
}
```

- a) "Dave"
- b) "Louise"
- c) "Luke"
- d) None of the Above

To see the answer and tweak the code, visit <https://ideone.com/hYE3ql>.

Can you infer from this answer whether Java is pass-by-reference or pass-by-value, and if so, why? You can send your solution to this follow-up question to [mycah.banks@payara.fish](mailto:mycah.banks@payara.fish).

Once again, you're not expected to answer – this is just for those who want to appease their insatiable thirst for knowledge.

Sincerely,

Matt  
Software Engineer Apprentice  
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