

### 1. EXERCISE (6.1.pl)

Download the Perl program “exercise.pl”. It is supposed to double the elements of an array and then calculate their mean, but it doesn’t do it correctly. Look at the comments to find out what each line is actually supposed to do. Use the debugger to find and correct the mistakes in the code.

### 2. EXERCISE (6.2.pl)

Write a “pattern matching program” that takes strings from an array and prints “string matches” if the string mentions “fred” and prints “string doesn’t match” if not. Does it match if your strings are Fred, frederick, or Alfred?

### 3. EXERCISE (6.3.pl)

What kind of pattern would you have to use if you would want to match “freddy”, “frddd” and “fred”, but NOT “red”, “ed”, “free” or “freed”. Update 6.2.pl to check if you have the correct pattern.

### 4. EXERCISE (6.4.pl)

Create a pattern that matches words which contain any capitalized letter, but then DO NOT continue with an “o” (upper or lower case). So it should match “Ted”, “iPad” and “LMU”, but not “Tod”, “iPod” and “IO”. Update 6.2.pl to check if you have the correct pattern.

### 5. EXERCISE (6.5.pl)

Make a program that reports a match if it finds a word that is capitalized but not ALL capitalized. So it should match Fred, but not FRED. Use the code from 6.2.pl to test...

### 6. EXERCISE (6.6.pl)

Create a pattern that matches when two consecutive letters in a string are repeated later within that string, but only if the two occurrences of the two letters are separated by at least one letter. E.g. “nanana”, “onion” and “Mississippi” match, but “dodo” and “anna” do not. Update 6.2.pl to check if you have the correct pattern.