

[1*] 1. simple filter. Read some "integers" and separate them into two odd and even numbers. store them in separate vectors. print the content of both vectors

[1*] 2. Is the following definition valid? Why or why not?

```
const std::string hello = "Hello";  
const std::string message = hello + ", world" + "!";
```

[1*] 3. Rewrite the following for statement as an equivalent while statement:

```
for (i = 0; i < max_length; i++) if (input_line[i] == '?')  
    quest_count ++;
```

Rewrite it to use a pointer as the controlled variable, that is, so that the test is of the form `*p == '?'`.

[1*] 4. Explain the difference between `0`, `'0'`, `'\0'`, `"0"`.