# Lab 1a assignment

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## 1 P1: max of 3 integers

```
int a;
int b;
int c;
a = read_int();
b = read_int();
c = read_int();
int ans;
ans = a;
if (b > ans) {
   ans = b
}
if (c > ans) {
   ans = c;
}
print_int(ans);
```

### 2 P2: primality check

```
int n;
n = read_int();
int prime;
prime = 1;
int d;
d = 2;
while (d < n) {
  if (n \% d == 0) {
    prime = 0;
  }
  d = d + 1;
if (prime == 0) {
  print_str("not prime")
} else {
  print_str("prime")
}
```

### 3 P3: sum of n numbers

```
int n;
n = read_int();
int i;
i = 0;
int sum;
sum = 0;
while (i < n) {
   int x;
   x = read_int();
   sum = sum + x;
}
print_int(sum);</pre>
```

### 4 P1err: sum of n numbers with 2 lexical errors

```
int _n;
_n = read_int(); // wrong comment
```

```
int i;
i = 0;
int sum;
sum = 0;
while (i < _n) {
   int x;
   x = read_int();
   sum = sum + x;
}
print_int(sum);</pre>
```

On the first line, int \_n;, there is a lexical error since \_n cannot be classified as a token. On the second line, \_n = read\_int(); // wrong comment, there is another lexical error since / is not part of the alphabet.