```
P1: Compute the maximum of 3 numbers
${
       let a: int;
       input(a);
       let b: int;
       input(b);
       let c: int;
       input(c);
       let max = a;
       check(b > a) {
                max = b;
       }
       check(c > max) {
                max = c;
       }
       output("The maximum is ");
       output(max);
}
P1_err:
${
       // first lexical error
       let a: 1int;
       input(a);
       let b: int;
       input(b);
       let c: int;
       input(c);
       let max = a;
       // second lexical error
       check(b~a) {
                max = b;
       check(c > max) {
                max = c;
       }
       output("The maximum is ");
        output(max);
}
```

```
P2: Check if a number is prime
${
       let number: int;
       input(number);
       let primeAnswer = "The number is prime!";
       let nonPrimeAnswer = "The number is not prime!";
       check(number < 2) {</pre>
               output(nonPrimeAnswer);
               exit;
       }
       check(number == 2) {
               output(primeAnswer);
               exit;
       }
       check(number % 2 == 0) {
               output(nonPrimeAnswer);
               exit;
       }
       loop(let d = 3; d * d <= number; d = d + 2) {
               if (number % d == 0) {
                       output(nonPrimeAnswer);
                       exit;
               }
       }
       output(primeAnswer);
}
P3: Compute the sum of n elements
${
       let sum = 0;
       let currentNumber: int;
       let n: int;
       input(n);
       loop(let i = 0; i < n; ++i) {
               input(currentNumber);
               sum = sum + currentNumber;
       }
       output(sum);
}
```