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) {
		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 = i + 1) {
		input(currentNumber);
		sum = sum + currentNumber;
	}

	output(sum);
}
```