Lab 1a

P1 – max of 3 numbers

```
{
        a: int;
        b: int;
        c: int;

        read (a);
        read (b);
        read (c);

        if (a > b && a > c)
        {
                write (a);
        }
        else if (b > c && b > a)
        {
                write (b);
        }
        else
        {
                write (c);
        }
}
```

P2– check if a number is prime

```
{
	a: int;
	isPrime: int = 1;

	read (a);

	if (a <= 1)
	{
		write ("The number is not prime");
	}

	if (a != 2 && a % 2 == 0)
	{
		write ("The number is not prime");
	}
	else
	{
		nr: int = 3;
		while (nr < a)
		{
			if (a % nr == 0)
			{
				isPrime = 0;
				nr = a;
			}
			nr = nr + 2
		}
	}
	if (isPrime == 1)
	{
		write ("The number is prime");
	}
	else
	{
		write ("The number is not prime");
	}
}
```

P3 – compute sum of n numbers

```
{
        n: int;
        read (n);

        arr: int [n];
        nrSum: int = 0;
        index: int = 0;

        for (index < n)
        {
                read (arr[index]);
                nrSum += arr [index];
                index = index + 1;
        }

        write (“The sum of the numbers is: ” + nrSum);
}
```

P2err - check if a number is prime

```
{
	~a: int;
	isPrime: int = 1;

	read (a);

	if (a <= 1)
	{
		write ("The number is not prime);
	}

	if (a != 2 && a % 2 == 0)
	{
		write ("The number is not prime");
	}
	else
	{
		nr: int = 3;
		while (nr < a)
		{
			if (a % nr == 0)
			{
				isPrime = 0;
				nr = a;
			}
			nr = nr + 2
		}
}
	if (isPrime == 1)
	{
		write ("The number is prime");
	}
	else
	{
		write ("The number is not prime");
	}
}
```