

P1:

```
int <a>
```

```
if <a == 2>:  
    print<true>  
end<>
```

```
if <a%2==0>:  
    print<false>  
end<>
```

```
int<i>  
i = 3
```

```
while <i < sqrt<a>>:  
    if <a % i == 0>:  
        print<false>  
        end<>  
    i = i + 2
```

```
print<true>
```

P2.

```
int <a, b, c>
```

```
read<a>  
read<b>
```

```
c = a  
a = b  
b = c
```

```
print <a>  
print <b>
```

P3.

```
int <prod, x, n>
```

```
prod = 1
```

```
read<n>
```

```
while <n > 0>:  
    read<x>  
    prod = prod * x  
    n = n - 1
```

```
print<prod>
```

P1err.

```
int <-a>
```

```
if <-a == 2>:  
  print<true>  
end<>
```

```
if <-a%2==0>:  
  print<false>  
end<>
```

```
in$<i>
```

```
i = 3
```

```
while <i < sqrt<-a>>:  
  if <-a % i == 0>:  
    print<false>  
    end<>  
  i = i + 2
```

```
print<true>
```