P1.

```
integer a;
integer b;
integer c;
a=10;
b=6;
if a>b:
    c=a-b;
else:
    c=b-a;
write(c);
end
```

P1err

```
begin
integer a;
integer b;
integer c;
a=10d; //error
b=6;
if a>b:
    c=a-b;
```

```
else:
    c=b-a;
write(c);
c="a; //error
end




P2
begin
integer a;
integer b;
integer r;
read(a);
read(b);
while a!=0:
    r=a%b;
    b=a;
    a=r;
write(a);
end
```

P3

```
begin
integer n;
read(n);
boolean prime = true;
if n<2 || ( n>2 && n%2==0)
    prime=false;
for integer index=2; integer<=n; integer++:
    if n%index==0:
        prime=false;
write(prime);
end
```