

- **p1 - compute gcd of 2 numbers**

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```
DECLARE a integer;
DECLARE b integer;

READ(a);
READ(b);

WHILE (a != b):
    IF (a > b):
        a = a - b;
    ELSE:
        b = b - a;
WRITE(a);
```

@

- **p2 - compute lcm of 2 numbers**

@

```
DECLARE a integer;
DECLARE b integer;

READ(a);
READ(b);

DECLARE copy_a integer;
DECLARE copy_b integer;

copy_a = a;
copy_b = b;

DECLARE gcd integer;
DECLARE lcm integer;

WHILE (a != b):
    IF (a > b):
        a = a - b;
    ELSE:
        b = b - a;
gcd = a;

lcm = copy_a*copy_b / gcd;

WRITE(lcm);
```

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- **p3: compute the sum of n numbers**

@

```
DECLARE n integer;  
READ(n);
```

```
DECLARE arr[n] array[integer];
```

```
FOR i in (0:n):  
    READ(arr[i]);
```

```
DECLARE sum integer;  
sum = 0;
```

```
FOR i in (0:n):  
    sum += arr[i];
```

```
WRITE(sum);
```

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**p1err should contain 2 types of lexical errors**

**p1err: Check if two chars are identical**

@

```
DECLARE 1char char;  
DECLARE char2 char;
```

```
1char = 'c';  
char2 = 'c';
```

```
IF (1char == char2):  
    WRITE('They are equal');  
ELSE:  
    WRITE('They are not equal');
```

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