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

MAIN

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**

MAIN

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);

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

MAIN

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);

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

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

MAIN

DECLARE 1char char;

DECLARE char2 char;

1char = ‘c’;

char2 = ‘c;

IF (1char == char2)

{

WRITE(‘They are equal’);

}

ELSE

{

WRITE(‘They are not equal’);

}