

```

1) int count = 3;
   while (count-- > 0)
       cout << count << " ";

```

3	2	1	0
3 > 0	2 > 0	1 > 0	0 > 0
(3)	(2)	(1)	-

```

2) int count = 3;
   while (--count > 0)
       cout << count << " ";

```

3	2	1	
2 > 0	1 > 0	0 > 0	
(2)	(1)	-	

```

3) int n = 1;
   do
       cout << n << " ";
   while (n++ <= 3);

```

1	2	3	4
(1)	(2)	(3)	(4)
1 <= 3	2 <= 3	3 <= 3	4 <= 3 ← false

```

4) int x = -42;
   do
   {
       cout << x << endl;
       x = x - 3;
   }
   while (x > 0);

```

-42	-	-	-
(-42)	-	-	-
-45	-	-	-
-45 > 0 ←	-	-	-

false.

```

5) int x = 10;
   do
   {
       cout << x << endl;
       x -= 3;
   }
   while (x > 0);

```

10	7	4	1
(10)	(7)	(4)	(1)
7	4	1	-2
7 > 0	4 > 0	1 > 0	-2 > 0 ← false

```

6) int N;
   for (N = 100; N >= 0; N--)
   {
       cout << N << " ";
       N--;
   }

```

100	98	96	94	2
100 >= 0, 100	98 >= 0, 98	96 >= 0, 96	...	2 >= 0, 2
(100)	(98)	(96)	...	(2)
99	97	95	...	1

MEXPI KAI TO KUISEV ©

```

7) int i = 0;
   while (i < 10)
       cout << i << endl;
   return 0;

```

0	0
0 < 10	0 < 10
0	0

Ακέραιος βρόχος

```

8) int x = 1;
   while (x != 12)
   {
       cout << x << endl;
       x = x + 2;
   }

```

1	3	5	7	9	11	
1 != 12	3 != 12	5 != 12	7 != 12	9 != 12	11 != 12	Ακέραιος βρόχος
1	3	5	7	9	11	
3	5	7	9	11	13	...

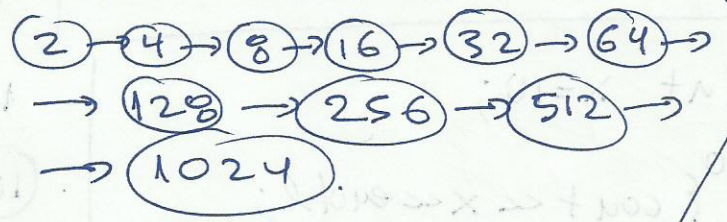
```

9) int n = 1024;
   int log = 0;
   for (int i = 1; i < n; i = i * 2)
       log++;
   cout << log << endl;

```

1024	1024	1024	1024	1024
0	1	2	3	9
	2 < 1024	4 < 1024	8 < 1024	512 < 1024
1 < 1024	4	8	16	1024
2	2	3	4	10
1	2	3	4	...
(1)	(2)	(3)	(4)	(10)

Οεμπιτκόι, θα λφει ως εφής:



```

10) double total = 0.0;
    for (int i = 1; i <= 5; i++)
        total = total + 1.0 / i;
    cout << total << endl;

```

0.0	1.0	1.5	1.83	2.08
1 <= 4	2 <= 4	3 <= 4	4 <= 4	5 <= 4
1	2	3	4	5
1.0	1.0 + 1.0/2	1.5 + 1.0/3	1.83 + 1.0/4	
1	1	1	1	
(1.0)	(1.5)	(1.83)	(2.08)	

θα εφρασει 2.08.

```

11) for (n=1; n<=10; n++)
    {
        for (m=10; m>=1; m--)
            cout << n << " * " << m
                << " = " << n * m << endl;
    }
    cout << " END " << endl;

```

1, 1<=10, 1	1, 1<=10, 1	1, 1<=10, 1	...	1, 1<=10, 1	2, 2<=10, 2
10, 10>=1, 10	9, 9>=1, 9	8, 8>=1, 8	...	1, 1>=1, 1	10, 10>=1, 10
1*10=10	1*9=9	1*8=8	...	1*1=1	2*10=20 ... kln
...	...	...	...	...	...

Συνολικά 99 παραδείγματα των πολλαπλασίων!

```

12) for (i=0; i<10; i++)
    {
        for (j=0; j<5; j++)
            cout << i << " , " << j << " ";
    }
    cout << " END " << endl;

```

0, 0<10, 0	0, 0<10, 0	0, 0<10, 0	
0, 0<5, 0	1, 1<5, 1	2, 2<5, 2	
0,0	0,1	0,2	0,3, 0,4
1,0	1,1	1,2	1,3, 1,4
2,0	2,1	2,2	2,3, 2,4
3,0	3,1	3,2	3,3, 3,4
4,0	4,1	4,2	4,3, 4,4

... kln kelpo! 0,4