

First Bulgarian National Olympiad in Informatics

June 1 and 2, 1985

Second Day.

Problem 2.

Determine the value of N which will be printed after running the following programme:

(FORTRAN)

```
      N=0
      X=-999
10    X=X+1
      IF(X-4)**2.GE.49)N=N+1
      IF(X.LT.999)GO TO 10
      WRITE(3,20)N
20    FORMAT(I6)
      STOP
      END
```

(BASIC)

```
1  N=0
5  X=-999
10 X=X+1
15 IF(X-1)^2>=49 THEN N=N+1
20 IF X<999 THEN GO TO 10
25 PRINT N
30 END
```

Source is taken from the jury materials.

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