```
10 REM To generate Fibonacci series and search for Primes
18 PRINT "N = ";
20 INPUT N
24 PRINT
30 LET F1 = 1
40 LET F2 = 1
55 PRINT "I = "; 1, "F="; 1; "(prime)"
58 PRINT "I = "; 2, "F="; 1; "(prime)"
60 FOR I = 3 TO N
70 LET F = F1 + F2
73 FOR J = 2 TO INT(SQR(F))
74 LET Q = F / J
75 LET Q1 = INT(Q)
76 IF Q = Q1 THEN 81
77 NEXT J
79 PRINT "I="; I, "F="; F; "(Prime)"
80  GOTO 82
81 PRINT "I = "; I, "F="; F
82  LET F2 = F1
100 LET F1 = F
110 NEXT I
120 END
```

Output

```
N = ?
N = 10
I = 1     F = 1 (Prime)
I = 2     F = 1 (Prime)
I = 3     F = 2 (Prime)
I = 4     F = 3 (Prime)
I = 5     F = 5 (Prime)
```

I = 6 F = 8

I = 7 F = 13 (Prime)

I = 8 F = 21

I = 9 F = 34

I = 10 F = 55