

### Problem F

**Input:** This program has no input

**Output:** standard output

**Time Limit:** 8 seconds

**Memory Limit: 32 MB**

Triangular numbers are **1, 3, 6, 10, 15** etc. Square numbers are **1, 4, 9, 16, 25** etc. Semi-triangular numbers are numbers of the form  $(2n+1)*T$ , here  $(0 \leq n < 8)$  and T is a triangular number. You will have to print all such numbers less than **16E34** or **1600000000000000000000000000000000**, which are semi-triangular and also square.

## Input

This program has no input.

## Output

The output file contains several lines. Each line contains a number which is semi-triangular and also square. The numbers are printed in ascending order.

## Sample Output

1  
9  
36  
196  
225  
324  
900  
.  
.  
.  
.  
.  
.  
.

(World Final Warm-up Contest, Problem setter: Shahriar Manzoor)

“A problem statement has Sample Output for two reasons:

1. To make you understand what the correct output format is.
2. To make you believe that your incorrect solution has solved the problem correctly :-)"