Happy numbers

[](http://www.rosettacode.org/wiki/Category:Solutions_by_Programming_Task)

**Happy numbers**  
You are encouraged to [solve this task](http://www.rosettacode.org/wiki/Rosetta_Code:Solve_a_Task) according to the task description, using any language you may know.

From Wikipedia, the free encyclopedia:

A [happy number](https://en.wikipedia.org/wiki/Happy_number) is defined by the following process:

Starting with any positive integer, replace the number by the sum of the squares of its digits, and repeat the process until the number equals   **1**   (where it will stay),   or it loops endlessly in a cycle which does not include   **1**.

Those numbers for which this process end in   **1**   are       *happy*   numbers,

while   those numbers   that   do   not   end in   **1**   are   *unhappy*   numbers.

**Task**

Find and print the first   **8**   happy numbers.

Display an example of your output here on this page.