**u Calculate e**

**Time Limit: 2000/1000 MS (Java/Others)    Memory Limit: 65536/32768 K (Java/Others)  
Total Submission(s): 33127    Accepted Submission(s): 14912**

**Problem Description**

A simple mathematical formula for e is  
  
http://acm.hdu.edu.cn/data/images/1012-1.gif  
  
where n is allowed to go to infinity. This can actually yield very accurate approximations of e using relatively small values of n.

**Output**

Output the approximations of e generated by the above formula for the values of n from 0 to 9. The beginning of your output should appear similar to that shown below.

**Sample Output**

n e

- -----------

0 1

1 2

2 2.5

3 2.666666667

4 2.708333333

**Source**

[Greater New York 2000](http://acm.hdu.edu.cn/search.php?field=problem&key=Greater+New+York+2000&source=1&searchmode=source)

**Recommend**

JGShining   |   We have carefully selected several similar problems for you:  [1412](http://acm.hdu.edu.cn/showproblem.php?pid=1412) [1234](http://acm.hdu.edu.cn/showproblem.php?pid=1234) [1011](http://acm.hdu.edu.cn/showproblem.php?pid=1011) [1086](http://acm.hdu.edu.cn/showproblem.php?pid=1086) [1170](http://acm.hdu.edu.cn/showproblem.php?pid=1170)