1157 - u Calculate e

Description

$$\sum_{0}^{k} 1/i!$$
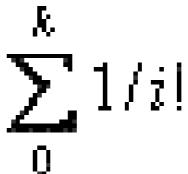
A simple mathematical formula for **e** is: where **k** is allowed to go to infinity. This can actually yield very accurate approximations of **e** using relatively small values of **k**.

Input specification

No input.

Output specification

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

Sample input

```
No input.
```

Sample output

```
n e
- -----------
0 1
1 2
2 2.5
3 2.666666667
4 2.708333333
...
...
```