## Jutge.org

The Virtual Learning Environment for Computer Programming

## Slow $\pi$ approximation

X27663\_en

Write a function  $slow\_pi\_approx(n)$  that given a non negative integer n computes  $4\sum_{k=0}^{n}\frac{(-1)^k}{2k+1}$ . The returned value has to be rounded to the ten thousandth by using the python function round  $(\_, 4)$ .

## Sample session

```
>>> slow_pi_approx(10)
3.2323
>>> slow_pi_approx(100)
3.1515
>>> slow_pi_approx(1000)
3.1426
```

## **Problem information**

Author: ProAl

Generation: 2017-10-10 12:42:26

© *Jutge.org*, 2006–2017. http://jutge.org