Input

```
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#
import sys
from random import random
from operator import add
from pyspark.sql import SparkSession
if __name__ == "__main__":
    Usage: pi [partitions]
  .....
  spark = SparkSession\
    .builder\
    .appName("PythonPi")\
    .getOrCreate()
  partitions = 2
  n = 100000 * partitions
  def f():
    x = random() * 2 - 1
```

count = spark.sparkContext.parallelize(range(1, n + 1), partitions).map(f).reduce(add) print("Pi is roughly %f" % (4.0 * count / n))

y = random() * 2 - 1

return 1 if x ** 2 + y ** 2 <= 1 else 0

spark.stop()

Output

Pi is roughly 3.152880