

# Ugly Number

Ugly number is a number that only have factors 3, 5 and 7.

Design an algorithm to find the Kth ugly number. The first 5 ugly numbers

are 3, 5, 7, 9, 15 ...

If K=4, return 9.

**class** Solution:

"""

@param k: The number k.

@return: The kth prime number as description.

"""

**def** kthPrimeNumber(self, k):

# write your code here

**import** heapq

key = [3, 5, 7]

h = []

**for** i **in** range(3):

    heapq.heappush(h, (key[i], i))

value = key[0]

**while** k > 0:

    value, level = heapq.heappop(h)

**while** level < 3:

        new\_value = key[level] \* value

        heapq.heappush(h, (new\_value, level))

        level += 1

    k -= 1

**return** value