**幸运数**

问题描述

幸运数是波兰数学家乌拉姆命名的。它采用与生成素数类似的“筛法”生成

。

首先从1开始写出自然数1,2,3,4,5,6,....

1 就是第一个幸运数。

我们从2这个数开始。把所有序号能被2整除的项删除，变为：

1 \_ 3 \_ 5 \_ 7 \_ 9 ....

把它们缩紧，重新记序，为：

1 3 5 7 9 .... 。这时，3为第2个幸运数，然后把所有能被3整除的序号位置的数删去。注意，是序号位置，不是那个数本身能否被3整除!! 删除的应该是5，11, 17, ...

此时7为第3个幸运数，然后再删去序号位置能被7整除的(19,39,...)

最后剩下的序列类似：

1, 3, 7, 9, 13, 15, 21, 25, 31, 33, 37, 43, 49, 51, 63, 67, 69, 73, 75, 79, ...

输入格式

输入两个正整数m n, 用空格分开 (m < n < 1000\*1000)

输出格式

程序输出 位于m和n之间的幸运数的个数（不包含m和n）。

样例输入1

1 20

样例输出1

5

样例输入2

30 69

样例输出2

8

锦囊1

使用堆来维护。

本题的C++参考代码如下：

#include <cstdio>

using namespace std;

int a[] = {1, 3, 7, 9, 13, 15, 21, 25, 31, 33, 37, 43, 49, 51, 63, 67, 69, 73, 75, 79, 87, 93, 99, 105, 111, 115, 127, 129, 133, 135, 141, 151, 159, 163, 169, 171, 189, 193, 195, 201, 205, 211, 219, 223, 231, 235, 237, 241, 259, 261, 267, 273, 283, 285, 289, 297, 303, 307, 319, 321, 327, 331, 339, 349, 357, 361, 367, 385, 391, 393, 399, 409, 415, 421, 427, 429, 433, 451, 463, 475, 477, 483, 487, 489, 495, 511, 517, 519, 529, 535, 537, 541, 553, 559, 577, 579, 583, 591, 601, 613, 615, 619, 621, 631, 639, 643, 645, 651, 655, 673, 679, 685, 693, 699, 717, 723, 727, 729, 735, 739, 741, 745, 769, 777, 781, 787, 801, 805, 819, 823, 831, 841, 855, 867, 873, 883, 885, 895, 897, 903, 925, 927, 931, 933, 937, 957, 961, 975, 979, 981, 991, 993, 997, 1009, 1011, 1021, 1023, 1029, 1039, 1041, 1053, 1057, 1087, 1093, 1095, 1101, 1105, 1107, 1117, 1123, 1147, 1155, 1167, 1179, 1183, 1189, 1197, 1201, 1203, 1209, 1219, 1231, 1233, 1245, 1249, 1251, 1261, 1263, 1275, 1281, 1285, 1291, 1303, 1309, 1323, 1329, 1339, 1357, 1365, 1369, 1387, 1389, 1395, 1401, 1417, 1419, 1435, 1441, 1455, 1459, 1471, 1473, 1485, 1491, 1495, 1497, 1501, 1503, 1519, 1533, 1543, 1545, 1563, 1567, 1575, 1579, 1585, 1587, 1597, 1599, 1611, 1639, 1641, 1645, 1659, 1663, 1675, 1693, 1701, 1705, 1711, 1723, 1731, 1737, 1749, 1765, 1767, 1771, 1773, 1777, 1797, 1801, 1809, 1819, 1827, 1831, 1833, 1839, 1857, 1869, 1879, 1893, 1899, 1915, 1921, 1923, 1933, 1941, 1945, 1959, 1963, 1965, 1977, 1983, 1987, 1995, 2001, 2019, 2023, 2031, 2053, 2059, 2065, 2067, 2079, 2083, 2085, 2095, 2113, 2115, 2121, 2125, 2127, 2133, 2163, 2173, 2187, 2209, 2211, 2215, 2217, 2221, 2239, 2251, 2253, 2257, 2271, 2277, 2281, 2283, 2301, 2311, 2317, 2323, 2335, 2343, 2355, 2365, 2379, 2395, 2403, 2407, 2409, 2415, 2419, 2427, 2439, 2445, 2461, 2467, 2473, 2479, 2491, 2493, 2505, 2511, 2523, 2527, 2545, 2557, 2563, 2571, 2575, 2587, 2589, 2593, 2599, 2607, 2625, 2635, 2647, 2649, 2653, 2661, 2667, 2671, 2689, 2697, 2715, 2725, 2755, 2763, 2773, 2781, 2785, 2787, 2797, 2815, 2817, 2821, 2823, 2827, 2835, 2841, 2845, 2851, 2877, 2887, 2899, 2901, 2905, 2913, 2923, 2943, 2953, 2961, 2971, 2973, 2977, 2983, 3003, 3007, 3027, 3031, 3037, 3039, 3049, 3055, 3073, 3075, 3091, 3097, 3099, 3109, 3111, 3121, 3123, 3133, 3153, 3163, 3171, 3175, 3183, 3187, 3199, 3213, 3223, 3229, 3235, 3243, 3259, 3261, 3289, 3297, 3301, 3307, 3313, 3325, 3339, 3351, 3355, 3363, 3381, 3403, 3405, 3409, 3411, 3427, 3433, 3439, 3451, 3453, 3465, 3477, 3481, 3487, 3489, 3495, 3499, 3507, 3559, 3565, 3571, 3579, 3595, 3597, 3603, 3607, 3613, 3621, 3625, 3633, 3655, 3661, 3663, 3669, 3675, 3685, 3687, 3697, 3709, 3717, 3721, 3727, 3747, 3753, 3763, 3771, 3781, 3789, 3793, 3795, 3811, 3843, 3847, 3849, 3865, 3873, 3879, 3889, 3891, 3897, 3909, 3915, 3931, 3943, 3951, 3955, 3969, 3975, 3981, 3991, 3999, 4003, 4015, 4023, 4033, 4035, 4041, 4045, 4063, 4069, 4081, 4095, 4105, 4107, 4129, 4131, 4161, 4165, 4173, 4179, 4189, 4195, 4201, 4203, 4207, 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5809, 5817, 5827, 5833, 5839, 5851, 5869, 5883, 5889, 5893, 5901, 5905, 5911, 5913, 5923, 5959, 5965, 5967, 5971, 5973, 5977, 5991, 5997, 6009, 6019, 6031, 6049, 6055, 6061, 6079, 6093, 6111, 6115, 6123, 6141, 6147, 6159, 6163, 6175, 6177, 6195, 6211, 6229, 6237, 6243, 6249, 6253, 6271, 6273, 6279, 6301, 6309, 6331, 6345, 6351, 6355, 6363, 6367, 6369, 6373, 6379, 6385, 6399, 6411, 6415, 6427, 6433, 6435, 6447, 6463, 6471, 6475, 6477, 6501, 6505, 6523, 6531, 6535, 6541, 6553, 6559, 6567, 6573, 6601, 6621, 6625, 6631, 6661, 6663, 6667, 6669, 6679, 6687, 6693, 6715, 6723, 6733, 6741, 6745, 6747, 6753, 6757, 6763, 6765, 6783, 6787, 6789, 6841, 6849, 6867, 6871, 6883, 6891, 6909, 6915, 6921, 6931, 6933, 6937, 6951, 6981, 6985, 6999, 7003, 7009, 7035, 7041, 7045, 7047, 7069, 7077, 7081, 7087, 7101, 7111, 7129, 7135, 7153, 7167, 7171, 7173, 7183, 7191, 7195, 7197, 7207, 7215, 7231, 7233, 7237, 7245, 7249, 7279, 7293, 7299, 7311, 7321, 7333, 7339, 7341, 7345, 7357, 7359, 7371, 7377, 7395, 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99877, 99879, 99885, 99889, 99897, 99907, 99919, 99921, 99949, 99955, 99973, 99987};

int find(int n) {

int l = 0, r = 8772;

while (r - l > 1) {

int mid = (l+r) / 2;

if (a[mid] > n) {

r = mid;

} else {

l = mid;

}

}

return l;

}

int main() {

int n, m;

scanf("%d %d", &n, &m);

printf("%d\n", find(m) - find(n));

}

本题的C参考代码如下：

#include<stdio.h>

#define MAXN 1000010

int flag[MAXN];

int m,n,a[MAXN],s[MAXN],size=0;

int fa(int k)

{

if(flag[k])

return a[k];

return fa(k-1);

}

int main()

{

int i, p, k, j;

scanf("%d%d",&m,&n);

for(i=1;i<=n;i+=2)

{

s[++size]=i;

flag[i]=1;

a[i]=size;

}

for(i=2;i<=size;i++)

{

int Mod=s[i],d=s[i]-1;

if(Mod>size)

break;

for(p=1,j=Mod;j<=size;j+=Mod,p++)

{

flag[s[j]]=0;

for(k=1;k<Mod&&k+j<=size;k++)

{

s[++d]=s[j+k];

a[s[j+k]]-=p;

}

}

size=d;

}

printf("%d\n",fa(n-1)-fa(m));

return 0;

}

本题的Java参考代码如下：

import java.io.BufferedReader;

import java.io.IOException;

import java.io.InputStream;

import java.io.InputStreamReader;

import java.util.ArrayList;

import java.util.StringTokenizer;

class Reader11{

static BufferedReader reader;

static StringTokenizer tokenizer;

static void init(InputStream input){

reader=new BufferedReader(new InputStreamReader(input));

tokenizer=new StringTokenizer("");

}

static String next() throws IOException{

while (!tokenizer.hasMoreElements()) {

tokenizer =new StringTokenizer(reader.readLine());

}

return tokenizer.nextToken();

}

static int nextInt() throws IOException{

return Integer.parseInt(next());

}

}

public class Main{

/\*\*

\* @param args

\* @throws IOException

\*/

public static void main(String[] args) throws IOException {

// TODO Auto-generated method stub

Reader11.init(System.in);

int m=Reader11.nextInt();

int n=Reader11.nextInt();

ArrayList<Integer> a=new ArrayList<Integer>();

for (int i = 1; i < n; i++) {

a.add(i);

}

int k=1;

int t=a.get(k);

while (t<=a.size()) {

int t0=a.get(k+1);

for (int j = 1; t\*j < a.size()+j; j++) {

a.remove(t\*j-j);

}

if (a.get(k)==t0) {

}else {

k++;

}

t=a.get(k);

}

int Mj = 0;

for (int i = 0; i < a.size(); i++) {

if (a.get(i)>m) {

Mj=i;

break;

}else if(a.get(i)==m){

Mj=i+1;

break;

}

}

System.out.println(a.size()-Mj);

}

}