C：

#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;

}

C++：

#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, 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78529, 78531, 78553, 78591, 78597, 78603, 78613, 78627, 78645, 78649, 78657, 78661, 78673, 78675, 78679, 78711, 78723, 78729, 78733, 78739, 78751, 78763, 78765, 78775, 78825, 78829, 78837, 78849, 78855, 78861, 78867, 78879, 78901, 78913, 78919, 78945, 78969, 78973, 78985, 78987, 78991, 79003, 79033, 79045, 79057, 79099, 79113, 79117, 79129, 79135, 79137, 79153, 79159, 79161, 79177, 79183, 79207, 79215, 79221, 79255, 79261, 79269, 79275, 79327, 79341, 79353, 79365, 79369, 79371, 79381, 79401, 79413, 79423, 79429, 79449, 79453, 79465, 79467, 79473, 79477, 79491, 79497, 79509, 79513, 79531, 79537, 79551, 79557, 79561, 79569, 79593, 79615, 79623, 79657, 79663, 79669, 79675, 79683, 79701, 79705, 79707, 79725, 79737, 79761, 79773, 79825, 79851, 79855, 79885, 79891, 79899, 79905, 79915, 79917, 79921, 79933, 79959, 79981, 79983, 79989, 79993, 80001, 80023, 80041, 80047, 80059, 80073, 80077, 80107, 80137, 80157, 80179, 80185, 80199, 80203, 80209, 80211, 80241, 80269, 80277, 80287, 80295, 80305, 80311, 80313, 80317, 80335, 80337, 80341, 80347, 80377, 80395, 80413, 80425, 80433, 80437, 80443, 80473, 80475, 80481, 80503, 80527, 80545, 80557, 80559, 80569, 80577, 80581, 80583, 80593, 80625, 80641, 80649, 80655, 80671, 80683, 80685, 80703, 80733, 80737, 80749, 80767, 80773, 80775, 80797, 80815, 80835, 80839, 80851, 80853, 80875, 80881, 80901, 80907, 80913, 80925, 80937, 80941, 80955, 80967, 81001, 81007, 81009, 81019, 81039, 81081, 81093, 81103, 81111, 81115, 81133, 81145, 81147, 81157, 81165, 81169, 81195, 81207, 81213, 81217, 81241, 81261, 81273, 81277, 81295, 81301, 81307, 81313, 81319, 81337, 81349, 81355, 81357, 81363, 81403, 81421, 81439, 81451, 81459, 81465, 81469, 81475, 81481, 81511, 81525, 81529, 81537, 81553, 81573, 81585, 81601, 81609, 81615, 81621, 81649, 81655, 81661, 81711, 81715, 81721, 81723, 81727, 81733, 81745, 81747, 81757, 81781, 81783, 81811, 81817, 81841, 81849, 81861, 81871, 81883, 81913, 81931, 81933, 81937, 81943, 81949, 81969, 81985, 82035, 82039, 82057, 82059, 82063, 82095, 82101, 82105, 82111, 82119, 82123, 82135, 82155, 82165, 82177, 82185, 82189, 82197, 82227, 82231, 82237, 82257, 82269, 82285, 82293, 82299, 82311, 82321, 82345, 82363, 82383, 82393, 82419, 82429, 82437, 82447, 82449, 82473, 82479, 82501, 82503, 82513, 82519, 82543, 82567, 82581, 82585, 82593, 82635, 82677, 82681, 82687, 82689, 82693, 82705, 82707, 82719, 82731, 82743, 82749, 82761, 82771, 82785, 82791, 82795, 82797, 82803, 82825, 82831, 82833, 82855, 82857, 82861, 82879, 82881, 82893, 82909, 82939, 82957, 82959, 82977, 82983, 82995, 83025, 83035, 83055, 83059, 83067, 83077, 83083, 83097, 83133, 83161, 83167, 83181, 83191, 83209, 83223, 83233, 83271, 83277, 83293, 83307, 83317, 83319, 83337, 83355, 83391, 83401, 83419, 83421, 83443, 83445, 83449, 83455, 83479, 83499, 83521, 83523, 83559, 83563, 83569, 83571, 83593, 83601, 83605, 83611, 83625, 83631, 83643, 83647, 83655, 83667, 83671, 83697, 83707, 83709, 83719, 83733, 83751, 83763, 83769, 83773, 83799, 83815, 83841, 83857, 83865, 83887, 83895, 83901, 83905, 83907, 83917, 83919, 83923, 83929, 83953, 83959, 83961, 83985, 83995, 84009, 84049, 84075, 84085, 84091, 84097, 84105, 84115, 84121, 84135, 84141, 84153, 84157, 84189, 84201, 84213, 84223, 84235, 84241, 84273, 84309, 84319, 84331, 84345, 84381, 84393, 84405, 84411, 84421, 84423, 84429, 84435, 84457, 84463, 84465, 84471, 84483, 84487, 84495, 84499, 84519, 84549, 84553, 84591, 84619, 84631, 84633, 84645, 84661, 84663, 84673, 84675, 84679, 84687, 84693, 84721, 84745, 84769, 84781, 84787, 84789, 84813, 84819, 84829, 84841, 84847, 84849, 84861, 84883, 84895, 84925, 84937, 84939, 84949, 84955, 84957, 84975, 84991, 84999, 85003, 85009, 85033, 85035, 85053, 85075, 85087, 85095, 85105, 85129, 85143, 85147, 85149, 85159, 85177, 85179, 85197, 85239, 85245, 85249, 85255, 85275, 85303, 85305, 85327, 85333, 85335, 85339, 85351, 85353, 85371, 85387, 85419, 85441, 85449, 85461, 85465, 85491, 85495, 85507, 85555, 85563, 85569, 85587, 85591, 85597, 85605, 85617, 85621, 85669, 85671, 85693, 85701, 85705, 85735, 85755, 85773, 85777, 85779, 85807, 85813, 85815, 85819, 85821, 85843, 85851, 85861, 85869, 85873, 85875, 85917, 85923, 85933, 85947, 85963, 85965, 85999, 86005, 86025, 86031, 86037, 86071, 86089, 86095, 86101, 86103, 86125, 86155, 86163, 86167, 86185, 86187, 86199, 86205, 86221, 86227, 86257, 86259, 86269, 86281, 86293, 86323, 86331, 86335, 86341, 86385, 86409, 86415, 86421, 86425, 86427, 86439, 86445, 86469, 86481, 86491, 86505, 86515, 86545, 86571, 86593, 86595, 86617, 86631, 86637, 86647, 86661, 86671, 86677, 86679, 86719, 86721, 86743, 86761, 86763, 86775, 86803, 86815, 86829, 86857, 86865, 86877, 86901, 86925, 86929, 86941, 86949, 86953, 86965, 86973, 86983, 86989, 87003, 87007, 87015, 87019, 87025, 87027, 87049, 87051, 87055, 87097, 87103, 87109, 87111, 87121, 87129, 87133, 87151, 87153, 87171, 87175, 87183, 87199, 87207, 87241, 87255, 87261, 87289, 87297, 87301, 87303, 87319, 87339, 87343, 87361, 87387, 87391, 87397, 87403, 87411, 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92781, 92785, 92823, 92829, 92841, 92851, 92869, 92887, 92905, 92911, 92913, 92917, 92925, 92929, 92937, 92941, 92973, 92977, 93003, 93021, 93031, 93057, 93063, 93093, 93099, 93105, 93117, 93123, 93129, 93135, 93139, 93147, 93169, 93189, 93223, 93229, 93241, 93247, 93261, 93265, 93285, 93289, 93295, 93303, 93339, 93355, 93381, 93397, 93403, 93417, 93433, 93451, 93459, 93465, 93483, 93501, 93505, 93507, 93517, 93523, 93525, 93543, 93547, 93555, 93577, 93591, 93597, 93609, 93627, 93633, 93669, 93691, 93703, 93705, 93715, 93753, 93759, 93781, 93787, 93799, 93813, 93829, 93831, 93849, 93871, 93877, 93883, 93885, 93895, 93913, 93915, 93945, 93957, 93963, 93969, 93979, 93987, 94003, 94005, 94009, 94017, 94021, 94029, 94039, 94065, 94069, 94089, 94093, 94105, 94135, 94159, 94189, 94195, 94197, 94209, 94215, 94219, 94221, 94255, 94257, 94273, 94291, 94293, 94299, 94317, 94321, 94323, 94327, 94345, 94353, 94363, 94381, 94389, 94407, 94419, 94423, 94443, 94453, 94461, 94471, 94473, 94479, 94489, 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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));

}

Java：

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);

}

}