1 тур

A

#include "fstream"

using namespace std;

int n,s,p,i,max1;

char a[1000000];

int main (){

ifstream cin ("laugh.in");

ofstream cout ("laugh.out");

cin>>n;

cin>>a;

for(i=0;i<n;i++){

if(a[i]=='a'){

s++;

if(i!=n-1){

if(a[i+1]=='h' && a[i-1]!='a'){

s++;

i++;

}

else if((a[i+1]!='a' || a[i-1]=='h')){

if(max1<s)

max1=s;

s=0;

}

}

}

else{ if(a[i]=='h' && a[i+1]=='a'){

s+=2;

i++;

}

else{

if(max1<s)

max1=s;

s=0;

}

}

if(a[i]!='a' && a[i]!='h')

s = 0;

}

if(max1<s) {

max1=s;

s=0;

}

cout<<max1<<endl;

}

B

#include "fstream"

using namespace std;

long long a,b,c,d,s,p1,p2;

int main(){

ifstream cin ("fractions.in");

ofstream cout ("fractions.out");

cin>>a>>b>>c>>d;

p1=a\*d;

p2=c\*b;

if(p1<p2){

if(p1%p2==0){

cout<<"0"<<endl;

return 0;

}

}

else{

cout<<"0"<<endl;

return 0;

}

while(a!=c || d!=b){

a++;b++;

//cout<<s<<endl;

if(a%2==0 && b%2==0){

a/=2;b/=2;

}

else if(a%3==0 && b%3==0){

a/=3;b/=3;

}

else if(a%5==0 && b%5==0){

a/=5;b/=5;

}

else if(a%7==0 && b%7==0){

a/=7;b/=7;

}

s++;

}

cout<<s<<endl;

}

C

#include<fstream>

#include<ctime>

int a,p,k;

using namespace std;

int main()

{

ifstream cin ("maximum.in");

ofstream cout ("maximum.out");

cin>>a;

srand(time(NULL));

p = rand() % a + 1;

srand(time(NULL));

k = rand() % a + p;

cout<<p<<" "<<k<<endl;

}

D

#include "fstream"

using namespace std;

long long m,n,x,y,i=1,s;

int main(){

ifstream cin ("dream.in");

ofstream cout ("dream.out");

cin>>n>>m;

cin>>x>>y;

while(x<=n && x>0 && y<=m && y>0)

{

x+=i;

s+=i;

if(x>n || x<=0 || y>m || y<=0)

break;

y-=i;

s+=i;

if(x>n || x<=0 || y>m || y<=0)

break;

i++;

x-=i;

s+=i;

if(x>n || x<=0 || y>m || y<=0)

break;

y+=i;

s+=i;

if(x>n || x<=0 || y>m || y<=0)

break;

i++;

}

cout<<s<<endl;

}

2 тур

А

#include "fstream"

using namespace std;

long long i,n;

double f;

int main(){

ifstream cin ("number.in");

ofstream cout ("number.out");

cin>>n;

if(n==1){

cout<<1<<endl;

return 0;

}

i=2;

while(1){

f = n/2;

if(n>=i && f < i ){

cout<<i<<endl;

return 0;

}

else

i\*=2;

}

}

B

#include "fstream"

#include "string"

#include "string.h"

using namespace std;

char a[1000],b[1000];

long p,i,j,s;

int main(){

ifstream cin ("degree.in");

ofstream cout ("degree.out");

cin>>a;

cin>>b;

for(i=0;i<strlen(a)-1;i++){

for(j=0;j<strlen(b)-1;j++)

if(a[i]==b[j] && a[i+1]==b[j+1]){

s++;

break;

}

}

cout<<s<<endl;

}

#include "fstream"

#include "vector"

using namespace std;

unsigned long n,i,s1,s2,x1,x2,s,j;

unsigned long long a[1000000];

int main (){

ifstream cin ("candies.in");

ofstream cout ("candies.out");

cin>>n;

for(i=0;i<n;i++){

cin>>a[i];

}

i=0;

while(i<n){

i=j;

x1 = a[i];

while(a[i]==x1){

s1++;

i++;

j=i;

//cout<<i<<" "<<a[i]<<" "<<s1<<endl;

}

x2=a[i];

while(a[i]==x2 || a[i]==x1){

s2++;

i++;

//cout<<i<<" "<<a[i]<<" "<<s2<<endl;

}

if(s1== 0 && s2==0){

cout<<0<<endl;

return 0;

}

if(s<s1+s2)

s = s1+s2;

s1=0; s2=0;

}

cout<<s<<endl;

}