#include <fstream>

#include <string.h>

using namespace std;

#define ull unsigned long long

#define ll long long

ifstream cin("laugh.in");

ofstream cout("laugh.out");

int main()

{

char a[100005];

ull len, i, j, t=0,maxx=0;

cin>>len>>a;

if(a[0]=='h'||a[0]=='a'){t++;maxx++;}

for(i=1;i<len;i++)

{

if((a[i]=='a'&&a[i-1]=='h')||(a[i]=='h'&&a[i-1]=='a'))

{

t++;

}else if(a[i]=='a'||a[i]=='h')

{

t=1;

}else

{

t=0;

}

maxx=max(maxx, t);

}

cout<<maxx<<"\n";

}

#include <fstream>

using namespace std;

#define ull unsigned long

#define ll long

ifstream cin("fractions.in");

ofstream cout("fractions.out");

class number

{

public:

ull ch;

ull zn;

void nextNumber()

{

ch++;

zn++;

ull t, c=ch, z=zn;

while (c!=0)

{

t=c;

c=z%c;

z=t;

}

ch/=z;

zn/=z;

}

number()

{

cin>>ch>>zn;

}

};

int main()

{

number a,b;

ull i=0;

/\*if(a.zn\*b.ch<a.ch\*a.zn)

{

cout<<0<<"\n";

return 0;

}\*/

while((a.ch!=b.ch)||(a.zn!=b.zn))

{

i++;

if(i>1000000)

{

cout<<0<<"\n";

return 0;

}

a.nextNumber();

}

cout<<i<<"\n";

}

#include <fstream>

using namespace std;

#define ull unsigned long long

#define ll long long

double abs(double a)

{

return a<0?-a:a;

}

ifstream cin("maximum.in");

ofstream cout("maximum.out");

int main()

{

int n, j, i, max2=0, maxn=1, minn=1;

cin>>n;

short m[200005];

cin>>m[0];

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

{

cin>>m[i];

}

int ti=0, tj;

for(tj=0;tj<n;tj++)

{

if((m[tj]==0)||(tj==n-1))

{

//1-i

ll s2=abs(double(m[ti]))==2?1:0, z=m[ti]<0?1:0;

for(i=ti+1;i<tj;i++)

{

if(abs(double(m[i]))==2?1:0)

{

s2++;

}

if(m[i]<0?1:0)

{

z++;

}

if((z%2==0)&&(max2<s2))

{

max2=s2;

minn=ti+1; maxn=i+1;

}

}

//i-n

s2=abs(double(m[tj-1]))==2?1:0, z=m[tj-1]<0?1:0;

for(i=tj-2;i>ti;i--)

{

if(abs(double(m[i]))==2?1:0)

{

s2++;

}

if(m[i]<0?1:0)

{

z++;

}

if((z%2==0)&&(max2<s2))

{

max2=s2;

minn=i+1;

if(m[tj]==0){maxn=tj/\*+1\*/;}else{maxn=tj+1;}

}

}

ti=tj+1;

}

}

if(max2==0)

{

int maxx=-3;

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

{

maxx=maxx>m[i]?maxx:m[i];

}

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

{

if(m[i]==maxx)

{

cout<<i+1<<" "<<i+1<<"\n";

return 0;

}

}

}

cout<<minn<<" "<<maxn<<"\n";

}

#include <fstream>

using namespace std;

#define ull unsigned long long

#define ll long long

ifstream cin("dream.in");

ofstream cout("dream.out");

int main()

{

int n,m,x,y, step;

ll s;

cin>>n>>m>>x>>y;

int xr,xl,yu,yd;

xr=n-x;

xl=x-1;

yu=m-y;

yd=y-1;

if(min(min(xr,xl),min(yu,yd))<3)

{

step=1;

s=0;

while(1)

{

if(step%2==1)

{

s+=step;

x+=step;

if(x>n)

{

break;

}

s+=step;

y-=step;

if(y<1)

{

break;

}

}else

{

s+=step;

x-=step;

if(x<1)

{

break;

}

s+=step;

y+=step;

if(y>m)

{

break;

}

}

step++;

}

}else

{

ll mm=min(min(xr,xl),min(yu,yd));

mm-=2;

ll ss=2\*mm+1;

s=ss\*ss+1+ss;

x+=mm+1; y+=mm - ss;

step=ss+1;

while(1)

{

if(step%2==1)

{

s+=step;

x+=step;

if(x>n)

{

break;

}

s+=step;

y-=step;

if(y<1)

{

break;

}

}else

{

s+=step;

x-=step;

if(x<1)

{

break;

}

s+=step;

y+=step;

if(y>m)

{

break;

}

}

step++;

}

s--;

}

cout<<s<<"\n";

}

2 тур

А

#include <fstream>

#include <math.h>

#include <vector>

#include <algorithm>

using namespace std;

#define ull unsigned long long

#define ll long long

ifstream cin("number.in");

ofstream cout("number.out");

int main()

{

ull a,b,c;

cin>>a;

for(b=0;a>1;b++)

{

a/=2;

}

for(c=1;b>0;b--)

{

c\*=2;

}

cout<<c<<"\n";

}

B

#include <fstream>

#include <string.h>

#include <vector>

#include <algorithm>

using namespace std;

#define ull unsigned long long

#define ll long long

ifstream cin("degree.in");

ofstream cout("degree.out");

int main()

{

char a[100009];

cin>>a;

ull i,j,k,l,s=0;

pair<pair<char, char>, pair<ull,ull>> pairs[35][35];

for(i=0;i<='Z'-'A';i++)

{

for(j=0;j<='Z'-'A';j++)

{

pairs[i][j].first.first=i+'A';

pairs[i][j].first.second=j+'A';

pairs[i][j].second.first=0;

pairs[i][j].second.second=0;

}

}

for(i=1;a[i]!='\0';i++)

{

pairs[a[i-1]-'A'][a[i]-'A'].second.first++;

}

cin>>a;

for(i=1;a[i]!='\0';i++)

{

if(pairs[a[i-1]-'A'][a[i]-'A'].second.second==0)

{

s+=pairs[a[i-1]-'A'][a[i]-'A'].second.first;

pairs[a[i-1]-'A'][a[i]-'A'].second.second=1;

}

}

cout<<s<<"\n";

}

C

#include <fstream>

using namespace std;

#define ull unsigned long long

#define ll long long

ifstream cin("candies.in");

ofstream cout("candies.out");

int max(int a, int b)

{

return a>b?a:b;

}

struct number

{

int n;

int first;

int last;

};

int main()

{

int n,i,j,l,k,c,res=0;

cin>>n;

number a,b;

cin>>a.n;

a.first=0;

a.last=0;

b.n=-1;

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

{

cin>>c;

if(c==a.n)

{

a.last=i;

}else

{

b.n=c;

b.first=i;

b.last=i;

break;

}

}

if(i==n)

{

cout<<0<<"\n";

return 0;

}else if(i==n-1)

{

cout<<n<<"\n";

return 0;

}else

{

i++;

for(;i<n;i++)

{

cin>>c;

if(c==a.n)

{

a.last=i;

}else if(c==b.n)

{

b.last=i;

}else

{

res=max(res, max(max(a.last-b.first,b.last-a.first), max(a.last-a.first, b.last-b.first))+1);

if(a.last>b.last)

{

a.first=b.last+1;

b.n=c;

b.first=i;

b.last=i;

}else

{

b.first=a.last+1;

a.n=c;

a.first=i;

a.last=i;

}

}

}

res=max(res, max(max(a.last-b.first,b.last-a.first), max(a.last-a.first, b.last-b.first))+1);

cout<<res<<"\n";

return 0;

}

}