//First part

//38

#include <iostream>

using namespace std;

int main()

{

int a, b;

cin >> a >> b;

int sum;

sum = a - b;

int res;

res = b - a;

if ((sum == 100) || (res == 100))

{

cout << "yes";

}

else

cout << "no";

}

//39

#include <iostream>

using namespace std;

int main()

{

int a, b;

cin >> a >> b;

if ((a>b))

{

cout << "yes";

}

else

{

swap(a, b);

cout << a << " " << b;

}

}

//40

#include <iostream>

using namespace std;

int main()

{

int a;

cin >> a;

if ((a > -10)&&(a < 10))

{

cout << a+5;

}

else

{

cout << a - 10;

}

}

//41

#include <iostream>

using namespace std;

int main()

{

int a;

cin >> a;

if ((a < -100) || (a > 100))

{

a = 0;

cout << a;

}

else

{

cout << a + 1;

}

}

//42

#include <iostream>

using namespace std;

int main()

{

int a;

cin >> a;

if ((a > 2) && (a < 5))

{

cout << a+10;

}

else if((a > 7) && (a < 40))

{

cout << a - 100;

}

else if ((a > 3000) || (a < 0))

{

cout << a \*3;

}

else

{

a = 0;

cout << a;

}

}

//1

#include <iostream>

using namespace std;

int main() {

cout << "Silence is golden";

}

//2

#include <iostream>

using namespace std;

int main() {

cout << "Monday" << "\nNovember" << "\n";

}

///4

#include <iostream>

using namespace std;

int main() {

cout << "AAAAAAAA\n"; cout << "AAAAAAAA\n"; cout << "AAAAAAAA\n"; cout << "AAAAAAAA\n"; cout << "AAAAAAAA\n";

}

//5

#include <iostream>

using namespace std;

int main(){

char c='\*';

cout«c«" "«c«" "«c«endl;

cout«' '« c «" "« c «' '« c «" "« c «endl;

cout«" "«c«' '« c «" "« c «' ' «c«endl;

cout«" "«c«" "«c«endl;

}

//6

#include <iostream>

using namespace std;

int main(){

cout<<1+2-4;}

//7

#include <iostream>

using namespace std;

int main(){

cout<<(1/2)+(1/4);

}

//8

#include <iostream>

using namespace std;

int main(){

int a=2;

int b=3;

cout<<(a+(4\*b))\*(a−(3\*b))+(a\*2);

}

//9

#include <iostream>

using namespace std;

int main(){

int x=-2;

cout<<abs(x)+pow(x,5);

}

//10

#include <iostream>

using namespace std;

int main(){

float a;

cin>>a;

cout<<pow((a+1),2)+3\*(a+1);

}

//11

#include <iostream>

using namespace std;

int main(){

float a=-2.34;

cout<<(abs(a-5)-sin(a))/3+sqrt(pow(a,2)+2014)\*cos(2\*a)-3;

}

//12

#include <iostream>

using namespace std;

int main(){

double x=3.6;

cout<<pow(M\_E,x-2)+abs(sin(x))-pow(x,4)\*cos(1/x);

}

//13

#include <iostream>

using namespace std;

int main(){

double a=0.1, b=0.2, x=1.0;

cout<<pow(pow(x,2)+b,1.0/5.0)-(pow(b,2)\*pow(sin(x+a),3))/x;

}

//14

#include <iostream>

#include<cmath>

using namespace std;

int main()

{

int n,m;

cin>>n>>m;

cout<<n<<'+'<<m<<'='<<n+m<<endl;

cout<<n<<'\*'<<m<<'='<<n\*m;

}

//15

#include <iostream>

#include<cmath>

using namespace std;

int main()

{

int n;

cin>>n;

cout<<n<<'^'<<2<<'='<<pow(n,2)<<endl;

cout<<n<<'^'<<3<<'='<<pow(n,3);

}

//16

#include <iostream>

using namespace std;

int main() {

double a, b, c;

cin >> a >> b >> c;

cout << 2 \* a << endl

<< b - 3 << endl

<< pow(c, 2) << endl;

cout << (2 \* a) + (b - 3) + (pow(c, 2)) << endl;

}

//17

#include <iostream>

using namespace std;

int main() {

double a, b, c;

cin >> a >> b >> c;

cout <<(a+b+c)/3 <<endl;

cout << (2\*a)-(2\*c)-(3\*b) << endl;

}

//18

#include <iostream>

using namespace std;

int main() {

double a;

cin >> a;

int P = a \* 4;

int S = pow(a, 2);

//19

#include <iostream>

using namespace std;

int main() {

double a, b;

cin >> a >> b;

int P = ((a \* 3) / 10) + ((b \* 4) / 10);

int S = (2 \* b) + ((18 \* a) / 10);

cout << P <<endl<< 3\*S;

}

//20

#include <iostream>

using namespace std;

int main() {

double a, b;

cin >> a >> b;

int P = b\*1000;

int S = a\*60;

cout << P/S;

}

//21

#include <iostream>

using namespace std;

int main() {

double a, b;

cin >> a >> b;

int S = (a\*b)/2;

int g = sqrt(pow(a, 2) + pow(b, 2));

int P =a+b+g ;

cout << S<<' '<<P<<' '<<g;

}

//22

#include <iostream>

using namespace std;

int main() {

//Цельсий х 1,8 + 32 = Фаренгейт

double a;

cin >> a ;

int F = (a \* 1.8) + 32;

cout << F;

}

//23

#include <iostream>

using namespace std;

int main() {

double x, a, y, k;

cin >> x >> a >> y >> k;

int b = (y \* a) / x;

int e = (k \* x) / a;

cout << b << endl << e;

}

//25

#include <iostream>

using namespace std;

int main() {

int a, b, c;;

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

cout << a \* 7 << endl<< b \* 30<<endl << c \* 360;

}

cout << P <<endl<< S;

}

//27

#include <iostream>

#include<cmath>

using namespace std;

int main()

{

int a,b,c;

cin>>a>>b>>c;

int q=a ,w=b , e=c;

a=a+b;

b=e-q;

c=q+w+e;

cout<<a<<' '<<b<<' '<<c;

}

//29

#include <iostream>

#include<cmath>

using namespace std;

int main()

{

int a,b;

cin>>a>>b;

swap(a,b);

cout<<a<<' '<<b;

}

//Second part

//2.1

#include <iostream>

using namespace std;

int main() {

int a;

cin>>a;

for(int i=0;i<a;i++)

{

if(i==0||i==a-1) cout<<1<<' ';

else cout<<0<<' ';

}

}

//2.2

#include <iostream>

using namespace std;

int main() {

int a;

cin>>a;

for(int i=0;i<a;i++)

{

if(i%2==0) cout<<0<<' ';

else cout<<1<<' ';

}

}

//2.4

#include <iostream>

using namespace std;

int main()

{

int x=0;

int d=2;

int a[100];

int n;

cin>>n;

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

{

a[i]=x+d\*(i-1);

cout<<a[i]<<' ';

}

}

//2.5

#include <iostream>

#include <string>

using namespace std;

int main()

{

int n,c=0;

cin>>n;

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

{

c+=2;

cout<<c<<' ';

}

}

//2.6

#include <iostream>

#include <string>

using namespace std;

int main()

{

int n,c=0;

cin>>n;

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

c+=3;

for(int i=n-1;i>=0;i--)

{

cout<<c<<' ';

c-=3;

}

}

//2.7

#include <iostream>

#include <string>

using namespace std;

int main()

{

int n,a[100];

cin>>n;

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

{

a[i]=a[i-1]+a[i-2];

a[0]=1;a[1]=1;

cout<<a[i]<<' ';

}

}

//2.9

#include <iostream>

#include <cmath>

using namespace std;

int main()

{

int n,a[100];

cin>>n;

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

{

cout<<pow(i,2)<<' ';

}

}

//2.10

#include <iostream>

#include <cmath>

using namespace std;

int main()

{

int n;

cin>>n;

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

{

if(i%2==0) cout<<1<<' ';

else cout<<i%5<<' ';

}

}

//2.11

#include <iostream>

#include <cmath>

using namespace std;

int main()

{

int n;

cin>>n;

int c=000;

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

{

cout<<c<<' ';

c+=111;

}

}

//2.12

#include <iostream>

#include <cmath>

using namespace std;

int main()

{

int n;

cin>>n;

int c=000;

for (int i=0;i<(n/2);i++)

{

cout<<c<<' ';

c+=111;

}

for (int i=(n/2);i<n;i++)

{

cout<<c<<' ';

c-=111;

}

}

//2.13

#include <iostream>

#include <cstdlib>

#include <ctime>

using namespace std;

int main()

{

int n,a[100];

cin>>n;

int c=0;

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

a[i]=rand()%20;

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

if(a[i]==1) c++;

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

{

if(i==0||i==5) cout<<1<<' ';

else cout<<a[i]<<' ';

}

}

//2.14

#include <iostream>

#include <cstdlib>

#include <ctime>

using namespace std;

int main()

{

int n;

cin>>n;

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

{

cout << rand()%2 << ' ';

}

}

//2.15

#include <iostream>

#include <cstdlib>

#include <ctime>

using namespace std;

int main()

{

int n;

cin>>n;

for(int i=0;i<5;i++)

cout<<rand()%3<<' ';

for(int i=5;i<n;i++)

cout<<rand()%10<<' ';

}

//2.16

#include <iostream>

#include <cstdlib>

#include <ctime>

using namespace std;

int main()

{

int n;

int a[100];

cin>>n;

for(int i=0;i<n/2;i++)

a[i]=rand()%22;

for(int i=n/2;i<n;i++)

a[i]=-rand()%22;

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

swap(a[i+3],a[i]);

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

cout<<a[i]<<' ';

}

//2.17

#include <iostream>

#include <cstdlib>

#include <ctime>

using namespace std;

int main()

{

int n;

int a0=0,a1=0,a2=0;

int a[100];

cin>>n;

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

a[i]=rand()% 3;

a[0]=2;

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

{

if(a[i]==1) a1++;

if(a[i]==0) a0++;

if(a[i]==2) a2++;

}

if(a1>(a0+a2))

{

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

cout<<a[i]<<' ';

}

else do{

int a0=0,a1=0,a2=0;

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

a[i]=rand()% 3;

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

{

if(a[i]==1) a1++;

if(a[i]==0) a0++;

if(a[i]==2) a2++;

}

}while(a1>(a0+a2));

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

cout<<a[i]<<' ';

}

//2.20.

#include <iostream>

using namespace std;

int main() {

int a[100];

int c=0,n;

cin >> n;

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

cin >> a[i];

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

if (a[i] % 2 == 0)

c++;

}

cout << c;

}

//2.21.

#include <iostream>

using namespace std;

int main() {

int a[100];

int c=0,n;

cin >> n;

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

cin >> a[i];

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

if (a[i] % 3 == 0 &&a[i]%7!=0)

c++;

}

cout << c;

}

//2.22.

#include <iostream>

using namespace std;

int main() {

int a[100];

int c=0,n,z=0;

cin >> n;

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

cin >> a[i];

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

if (a[i] % a[0] == 0)

c++;

}

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

if (a[i] % a[n-1] == 0)

z++;

}

cout<<c<<' '<<z;

}

//2.23.

#include <iostream>

using namespace std;

int main() {

int n, sum=0, prod=0;

cin >> n;

int a[100];

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

cin >> a[i];

sum += a[i];

}

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

prod =prod\* a[i];

}

cout << sum << " " << prod;

}

//2.24.

#include <iostream>

using namespace std;

int main() {

int n, sum=0;

cin >> n;

int a[100];

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

cin >> a[i];

}

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

if(a[i]%2==0)

sum+=a[i];

}

cout << sum ;

}

//2.25.

#include <iostream>

using namespace std;

int main() {

int n, sum = 0;

cin >> n;

int a[100];

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

cin >> a[i];

}

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

if (a[i] % 2 == 1 && a[i] < 11)

sum += a[i];

}

cout << sum;

}

//2.27.

#include <iostream>

using namespace std;

int main() {

int n, sum = 0;

cin >> n;

int a[100];

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

cin >> a[i];

}

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

if (i % 2 == 0)

sum += a[i];

}

cout << sum;

}

//2.28.

#include <iostream>

using namespace std;

int main() {

int n, sum = 0;

cin >> n;

int a[100];

int b = 0;

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

cin >> a[i];

}

b = a[0] + a[n - 1];

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

if (a[i] % 2 == 1 && a[i]<b) {

sum += a[i];

}

}

cout << sum;

}

//2.29.

#include <iostream>

using namespace std;

int main() {

int n;

cin >> n;

int a[100];

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

cin >> a[i];

}

int first = a[0];

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

((i + 1) == n) ? first -= a[i], first -= 1, first += a[i] : ((i + 1) % 2 == 0) ? (first -= a[i]) : (first += a[i]);

cout << first;

}

//2.32

#include <iostream>

using namespace std;

int main() {

int n,a[100],max=a[0];

cin>>n;

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

cin>>a[i];

}

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

if(max<a[i])

max=a[i];

}

cout<<max;

}

//2.35.

#include <iostream>

using namespace std;

int main() {

int n, a[100];

cin >> n;

int min = 100000000;

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

cin >> a[i];

}

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

if (min > a[i] && a[i]%2==0)

min = a[i];

}

cout << min << endl;

}

//third part

//3.5

#include <iostream>

using namespace std;

int main()

{

int block[100][100], n;

cin >> n;

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

{

for (int j = 0; j < n; j++)

{

cin >> block[i][j];

}

}

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

{

for (int j = 0; j < n; j++)

{

if ((j % 2 == 0) && (j/2!=0)) {

cout << block[i][j] << " ";

}

cout << endl;

}

}

}

//3.3

#include <iostream>

using namespace std;

int main()

{

int block[100][100], n;

cin >> n;

int i, j;

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

{

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

{

cin >> block[i][j];

}

}

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

{

cout << block[i][0] << " ";

}

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

{

cout << block[i][n-1] << " ";

}

}

//3.1

#include <iostream>

using namespace std;

int main()

{

int block[100][100], n=3;

int row=4;

int i, j;

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

{

for (j = 0; j < row; j++)

{

cin >> block[i][j];

}

}

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

{

for (j = 0; j < row; j++)

{

cout << block[i][j]<<" ";

}

cout << endl;

}

}

//3.7

#include <iostream>

using namespace std;

int main()

{

int block[100][100], n = 5;

int row = 5;

int i, j;

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

{

for (j = 0; j < row; j++)

{

cin >> block[i][j];

}

}

int res = 0;

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

{

for (j = 0; j < row; j++)

{

if ((block[i][j] % 2 != 0) && ((block[i][j] < 0)))

{

res = res + abs(block[i][j]);

}

}

}

cout << res;

}

//3.9

#include <iostream>

using namespace std;

int main()

{

int block[100][100], n = 3;

int row = 3;

int i, j;

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

{

for (j = 0; j < row; j++)

{

cin >> block[i][j];

}

}

int res = 0;

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

{

for (j = 0; j < row; j++)

{

if (block[i][j] == block[j][i])

{

cout << block[i][j]<<" ";

}

}

}

}

//3.11

#include <iostream>

using namespace std;

int main()

{

int block[100][100];

int n;

int m;

cin >> n >> m;

int i, j;

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

{

for (j = 0; j < m; j++)

{

cin >> block[i][j];

}

}

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

{

for (j = 0; j < m; j++)

{

if (i % 2 == 0) {

cout << block[i][n - j - 1] << " ";

}

if (i % 2 != 0) {

cout << block[i][j] << " ";

}

}

cout << endl;

}

}

//3.13

#include <iostream>

using namespace std;

int main()

{

int const n = 4;

int m[n][n] = { { 3, 2, 2, 2 },

{ 1, 3, 2, 2 },

{ 1, 1, 3, 2 },

{ 1, 1, 1, 3 } };

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

{

for (int j = 0; j < n; j++)

{

cout << m[i][j]<<" ";

}

cout << endl;

}

}

//2

#include <iostream>

using namespace std;

int main() {

int a[100][100];

for (int i = 0; i < 2; i++) {

for (int j = 0; j < 3; j++) {

cout << rand() % 9<<" ";

}cout << endl;

}

}

//4

#include <iostream>

#include <string>

using namespace std;

int main()

{

int ar[100][100];

int a, b;

cin >> a >> b;

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

for (int j = 0; j < b; j++) {

cin >> ar[i][j];

}

}

for (int i = 0; i < 1; i++) {

for (int j = 0; j < b; j++) {

cout << ar[0][j] << " ";

}

cout << endl;

}

for (int i = 0; i < 1; i++) {

for (int j = 0; j < b; j++) {

cout << ar[a-1][j] << " ";

} cout << endl;

}

}

//8

#include <iostream>

#include <string>

using namespace std;

int main()

{

int ar[100][100];

int a,b,count=0;

cin>>a>>b;

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

for(int j =0;j<b;j++){

cin>>ar[i][j];

}

}

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

for(int j =0;j<b;j++){

if(ar[i][j]==7)

count++;

}

} cout<<count;

}

//10

#include <iostream>

#include <string>

using namespace std;

int main()

{

int ar[100][100];

int a,b,count=0,k,p;

cin>>a>>b;

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

for(int j =0;j<b;j++){

cin>>ar[i][j];

}

}

cin>>k>>p;

for(int i=0;i<1;i++){

for(int j =0;j<b;j++){

cout<<ar[k-1][j]<<" ";

}

}

cout<<endl;

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

for(int j =0;j<1;j++){

cout<<ar[i][p-1]<<" ";

}

}

}

//18

#include <iostream>

#include <string>

using namespace std;

int main()

{

int ar[100][100];

for(int i=0;i<5;i++){

for(int j =0;j<5;j++){

cin>>ar[i][j];

}

}

for(int i=0;i<5;i++){

for(int j =0;j<5;j++){

swap(ar[4][j],ar[3][j]);

}

}

for(int i=0;i<5;i++){

for(int j =0;j<5;j++){

cout<<ar[i][j]<<" ";

}cout<<endl;

}

}

//26

#include <iostream>

#include <string>

using namespace std;

int main()

{

int ar[100][100];

int n;

cin>>n;

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

for(int j =0;j<n;j++){

cin>>ar[i][j];

}

}

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

for(int j =0;j<n;j++){

swap(ar[0][j],ar[n-1][j]);

}

}

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

for(int j =0;j<n;j++){

cout<<ar[i][j]<<" ";

}cout<<endl;

}

}

//34

#include <iostream>

#include <string>

using namespace std;

int main()

{

int ar[100][100],br[100][100];

int n;cin>>n;

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

for(int j =0;j<n;j++){

cin>>ar[i][j];

}

}

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

for(int j =0;j<n;j++){

cin>>br[i][j]; }

}

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

for(int j =0;j<n;j++){

cout<<ar[i][j]\*br[i][j]<<" ";

}cout<<endl;

}

}

//Forth part

//1

#include <iostream>

#include <cstring>

#include <string>

using namespace std;

int main()

{

string str;

cin>>str;

for(int i=0; i<3;i++){

cout<<str<<",";

}

}

//2

#include <iostream>

#include <string>

using namespace std;

int main(){

string str;

cin>>str;

cout<<str[0];

int n;

n=str.length();

if(n%2==1){

int l;

l=(n/2);

cout<<str[l];

}

cout<<str[n-1];

}

//3

#include <iostream>

#include <string>

using namespace std;

int main(){

string str;

cin>>str;

int n;

n=str.length();

if(n>5){

for(int i=0;i<3;i++){

cout<<str[i];

}

for(int i=(n-1); i>(n-4); i--){

cout<<str[i];

}

}

else{

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

cout<<str[0];

}

}

}

//4

#include<iostream>

#include <string>

#include <cstring>

using namespace std;

int main (){

int l;

char str1[50], str2[50];

cin.getline(str1, 50);

int i;

l = strlen(str1);

str2[l];

int k = 0;

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

{

if (isdigit(str1[i]))

{

if (k % 2 == 0)

{

str2[k] = str1[i];

k++;

}

}

if (isalpha(str1[i]))

{

if (k % 2 != 0)

{

str2[k] = str1[i];

k++;

}

}

}

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

{

cout << str2[i] ;

}

}

//5

#include <iostream>

#include <string>

using namespace std;

int main()

{

string str;

getline(cin, str);

int i = 0;

while (i != str.length() - 1)

{

if (str[i++] == str.back())

cout << i << " ";

}

return 0;

}

//6

#include <iostream>

#include <string>

using namespace std;

int main()

{

string str;

getline(cin, str);

for(int i=2; i < str.length(); i+=3){

cout<<str[i]<<" ";

}

}

//9

#include <iostream>

#include <string>

using namespace std;

int main()

{

string str,str1;

getline(cin, str);

getline(cin, str1);

int n,m,z;

n=str.length();

m=str1.length();

if(n>m){

z=n-m;

for(int i=0; i<z; i++){

cout<<str<<" ";

}

}

else if (m>n){

z=m-n;

for(int i=0; i<z; i++){

cout<<str1<<" ";

}

}

}

//11

#include <iostream>

#include <string>

using namespace std;

int main()

{

string str,str1;

getline(cin, str);

int n;

n=str.length();

if (n>10){

for (int i = 0; i<6;i++){

cout<<str[i];

}

}

else {

cout<<str;

for(int i=0; i<12-n; i++){

cout<<"o";

}

}

}

//14

#include <iostream>

#include <string>

using namespace std;

int main(){

string str;

getline(cin,str);

int count;

count=0;

int n=str.length();

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

if (isdigit(str[i])){

count++;

}

}

cout<<count;

}

\*/