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Level 1 bio

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Task1:

#include <iostream>

using namespace std;

int main()

{

int a[5][5];

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

{

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

{

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

cout << "0 ";

else if (a[i] < a[j])

cout << "1 ";

else

cout << "-1 ";

}

cout << endl;

}

}

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Task2:

#include <iostream>

using namespace std;

int main()

{

const int size = 5;

int array[size] = { 1,2,1,3,1 };

int count[size] = { 0 };

int save[size];

bool notfound = true;

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

{

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

{

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

{

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

{

if (array[i] == save[i])

{

notfound = false;

break;

}

else

notfound = true;

}

if (notfound)

count[i]++;

else

break;

}

save[i] = array[i];

}

}

int max = 0;

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

{

if (count[i] > max)

max = count[i];

}

int index;

for (index = 0; index < size; index++)

{

if (count[index] == max)

break;

}

cout << array[index];

}

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Task3:

#include <iostream>

using namespace std;

int main()

{

int a[3][3], sum = 0;

for (int i = 1; i <= 3; i++)

{

for (int j = 1; j <= 3; j++)

{

cin >> a[i][j];

}

}

for (int i = 1; i <= 3; i++)

{

sum = 1;

for (int j = 1; j <= 3; j++)

{

sum \*= a[i][j];

}

cout << "product of row " << i << " = " << sum << endl;

}

cout << endl;

for (int j = 1; j <= 3; j++)

{

sum = 1;

for (int i = 1; i <= 3; i++)

{

sum \*= a[i][j];

}

cout << "product of column " << j << " = " << sum << endl;

}

return 0;

}

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Task:4

#include <iostream>

using namespace std;

void swap(int temp,int a[2][3]) {

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

{

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

{

temp = a[i][j];

a[i][j] = a[i + 1][j];

a[i + 1][j] = temp;

}

}

}

int main()

{

int a[2][3], temp=0;

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

{

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

{

cin >> a[i][j];

}

cout << endl;

}

swap( temp,a);

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

{

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

{

cout << a[i][j];

}

cout << endl;

}

}

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Task5:

#include <iostream>

using namespace std;

void swap(int a[2][2],int x)

{

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

{

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

{

x = a[i][j];

a[i][j] = a[i][j + 1];

a[i][j + 1] = x;

}

}

}

int main()

{

int a[2][2], temp=0;

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

{

for (int j = 0; j < 2; j++)

{

cin >> a[i][j];

}

cout << endl;

}

swap(a, temp);

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

{

for (int j = 0; j < 2; j++)

{

cout << a[i][j];

}

cout << endl;

}

}