Number-1:

#include <iostream>

using namespace std;

int main()

{

int in1[3], in2[3], in3[3], r[9],i,x=0;

cout<<"First array : ";

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

{

cin>>in1[i];

}

cout<<"Second array : ";

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

{

cin>>in2[i];

}

cout<<"Third array : ";

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

{

cin>>in3[i];

}

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

{

r[i]=in1[i];

r[i+3]=in2[i];

r[i+6]=in3[i];

}

for(i=0; i<9; i++)

{

for(int j=i+1; j<9; j++)

{

if(r[i]>r[j])

{

int x =r[i];

r[i]=r[j];

r[j]=x;

}

}

}

cout<<"Result is: "<<endl;

for(i=0; i<9; i++)

{

cout<<r[i]<<" ";

}

return 0;

}

Number-2:

#include <iostream>

using namespace std;

int main()

{

int arr[] = {1, 1, 2, 3,1, 4, 2, 3, 9};

int n = sizeof(arr) / sizeof(arr[0]);

int current = 0, max = 0;

int Number, i, j;

for (i = 0; i < n - 1; i++)

{

current = 0;

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

{

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

{

cout << arr[i] << " " << arr[j] << endl;

current++;

}

else

{

break;

}

}

if (max < current)

{

max = current;

Number = arr[i];

}

}

cout << "Longest sequence found for " << Number << endl;

return 0;

}

Number-3:

#include<iostream>

using namespace std;

void selectionSort(int a[], int n)

{

int i, j, min, temp;

for (i = 0; i < n - 1; i++)

{

min = i;

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

if (a[j] < a[min])

min = j;

temp = a[i];

a[i] = a[min];

a[min] = temp;

}

}

int main()

{

int a[] = { 3,3,1,1,1,3,4,6,3,6,7,49 };

int n = sizeof(a)/ sizeof(a[0]);

int i;

cout<<"Given array is:"<<endl;

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

cout<< a[i] <<" ";

cout<<endl;

selectionSort(a, n);

cout<<"Sorted array is: ";

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

cout<< a[i] <<" ";

return 0;

}

Number-4:

#include <iostream>

using namespace std;

int main()

{

int arr[] = {5, 7, 3, 5, 8, 5, 3, 8, 9};

int n = sizeof(arr) / sizeof(arr[0]);

int count = 1;

int i,j;

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

{

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

{

if (arr[i] == arr[j] && i != j)

break;

}

if (j == n)

{

cout << "Non repeating element is: "<< arr[i] << endl;

++count;

}

}

return 0;

}