Prime number

#include <iostream>

using namespace std;

int prime(int n)

{

int i;

if(n==1)

{

return n;

}

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

{

if(n%i==0)

{

cout<<"non prime"<<endl;

return 0;

}

}

cout<<"prime"<<endl;

return 0;

}

int main()

{

int n;

cin>>n;

prime(n);

return 0;

}

Prime factor

#include <iostream>

using namespace std;

void primeFactor(int n)

{

for(int i=2;i>1;i++)

{

while(n%i==0)

{

cout<<i<<" ";

n=n/i;

}

}

return ;

}

int main()

{

int n;

cin>>n;

primeFactor(n);

return 0;

}

All divisor of number

#include <iostream>

using namespace std;

void divisor(int n)

{

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

{

if(n%i==0)

{

cout<<i<<" "<<endl;

}

}

return ;

}

int main()

{

int n;

cin>>n;

divisor(n);

return 0;

}

Liner search

#include<iostream>

using namespace std;

int shearch(int arr[] , int n,int x)

{

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

{

if(arr[i]==x)

{

return i;

}

}

return -1;

}

int main()

{

int n;

cout<<"ENTER A NUMBER OF ARRAY=";

cin>>n;

int arr[n];

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

{

cin>>arr[i];

}

int x;

cout<<"ENTER A X=";

cin>>x;

cout<<shearch(arr,n,x)<<endl;

return 0;

}

Deletion element

#include<iostream>

using namespace std;

int

deletr (int arr[], int n, int x)

{

int i;

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

{

if (arr[i] == x)

{

break;

}

if (i == n)

{

return n;

}

}

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

{

arr[j] = arr[j + 1];

}

return (n - 1);

}

int

main ()

{

int n;

cin >> n;

int arr[n];

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

{

cin >> arr[i];

}

int x;

cout << "ENTER A DELETE ELEMENT=";

cin >> x;

n = deletr (arr, n, x);

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

{

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

}

}

Insert on array

#include <iostream>

using namespace std;

int adding(int arr[], int n, int x, int pos, int cap)

{

    if (n == cap)

    {

        return n;

    }

    int index = pos - 1;

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

    {

        arr[i + 1] = arr[i];

    }

        arr[index] = x;

    return (n + 1);

}

int main()

{

    int cap;

    cout << "cap is=";

    cin >> cap;

    int n;

    cout << "enter a N";

    cin >> n;

    int arr[n];

    for (int i = 0; i < n; i++)

    {

        cin >> arr[i];

    }

    int x;

    cout << "ENTER A X= ";

    cin >> x;

    int pos;

    cout << "ENTER A POS= ";

    cin >> pos;

    n = adding(arr, n, x, pos, cap);

    for (int i = 0; i < n; i++)

    {

        cout << arr[i] << " ";

    }

    return 0;

}