Assignment 5



void insertionSort(int arr[], int n)

{

    int i, key, j;

    for (i = 1; i < n; i++)

    {

        key = arr[i];

        j = i - 1;

        while (j >= 0 && arr[j] > key)

        {

            arr[j + 1] = arr[j];

            j = j - 1;

        }

        arr[j + 1] = key;

    }

}



    void push(int x)

    {

        mainStack.push(x);

        if (mainStack.size() == 1)

        {

            trackStack.push(x);

            return;

        }

        if (x > trackStack.top())

            trackStack.push(x);

        else

            trackStack.push(trackStack.top());

    }

    int getMax()

    {

        return trackStack.top();

    }



    void push(int x)

    {

        mainStack.push(x);

        if (mainStack.size() == 1)

        {

            trackStack.push(x);

            return;

        }

        if (x < trackStack.top())

            trackStack.push(x);

        else

            trackStack.push(trackStack.top());

    }

    int getMin()

    {

        return trackStack.top();

    }