**Maximum sum increasing subsequence**

Given an array of n positive integers. Find the sum of the maximum sum subsequence of the given array such that the integers in the subsequence are sorted in strictly increasing order i.e. a strictly increasing subsequence.

**Example 1:**

**Input**: N = 5, arr[] = {1, 101, 2, 3, 100}

**Output:** 106

**Explanation**:The maximum sum of a

increasing sequence is obtained from

{1, 2, 3, 100}

class Solution

{

public int maxSumIS(int arr[], int n)

{

//code here.

int res[]=new int[n];

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

res[i]=arr[i];

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

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

if(arr[i]<arr[j]){

if( res[j]<res[i]+arr[j])

res[j]=res[i]+arr[j];

}

}

}

int max=0;

for(int i=0;i<res.length;i++){

if(res[i]>max)

max=res[i];

}

return max;

}

}