**package** com.sailaja.phase1Project;

**public** **class** IncreaseSubsequence {

**static** **int** *max\_start*;

**static** **int** lis(**int** arr[], **int** a) {

**if** (a == 1)

**return** 1;

**int** res, max\_end = 1;

**for** (**int** i = 1; i < a; i++) {

res = *lis*(arr, i);

**if** (arr[i - 1] < arr[a - 1]

&& res + 1 > max\_end)

max\_end = res + 1;

}

**if** (*max\_start* < max\_end)

*max\_start* = max\_end;

**return** max\_end;

}

**static** **int** lis1(**int** arr[], **int** n) {

*max\_start* = 1;

*lis*(arr, n);

**return** *max\_start*;

}

**public** **static** **void** main(String args[])

{

**int** arr[] = { 10, 22, 9, 33, 21, 50, 41, 60 };

**int** n = arr.length;

System.***out***.println("list length is " + *lis*(arr, n)+ "\n");

}

}