

1: Python program. Bináris keresés és beszűrő rendezés Python-ban

```
1 def binary_search(arr, val, start, end):
    if start == end:
        if arr[start] > val:
            return start
5     else:
        return start+1
    elif start > end:
        return start
9     else:
        mid = (start+end)/2
        if arr[mid] < val:
            return binary_search(arr, val, mid+1, end)
13        elif arr[mid] > val:
            return binary_search(arr, val, start, mid-1)
        else: # arr[mid] = val
            return mid
17
def insertion_sort(arr):
    for i in xrange(1, len(arr)):
        val = arr[i]
21        j = binary_search(arr, val, 0, i-1)
        arr = arr[:j] + [val] + arr[j:i] + arr[i+1:]
    return arr
```