Assignement 5

Best A) Algorithm thy. Worst 0002) 0(2) Selection Sort AM) 0 (m²) Bubble sort 0(2) n(n) oht) 0(2) Insertion Sort n(n) O(n log (n)) O(nlog (n)) theap sort in (nlog(n)) Oflog (n) O(nlog(n)) n (n log (m)) Ourk sort

AD def selection Sort (arr); n = len (arr)for i in range (n):

minum = i

for j in range (i+1,n):

if (arr [j] < arr [minum]):

num = [

temp = arr [i]

arr [i] = arr [muhum]

arr [numum] = homp

return ard

arr = [i2, 4,9,5,3,16,12]

pmod (selection Sort (arr))

B) de pop(stret): if (strok)! geturn Str (-marsize-1) return stack-pop() Au) des De Queue (self): if self. is Empty(); point (Empty) print ( % / . 3 dequered from quere " . 1. str(self. Q[self. hourt])). self-size = self-size -1