

Iterative Linked List Selection Sort.

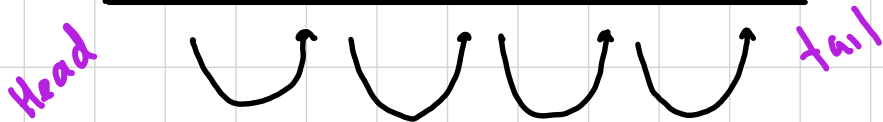
2213435

$i = 0$

1132	89	9090	2	12
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Start (Initialize)
↓
min-position
max-position

1132	89	9090	2	12
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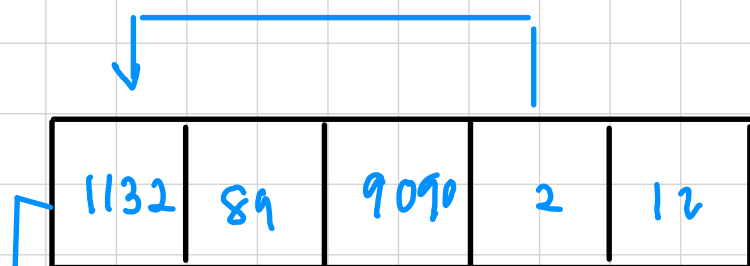


if (list.get(k) > max)
max = list.get(k)
max-position = k

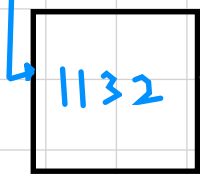
max-position
min-position

1132	89	9090	2	12
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if (list.get(k) < min)
min = list.get(k)
min-position = k



swap(list, i, min-position)



Temp

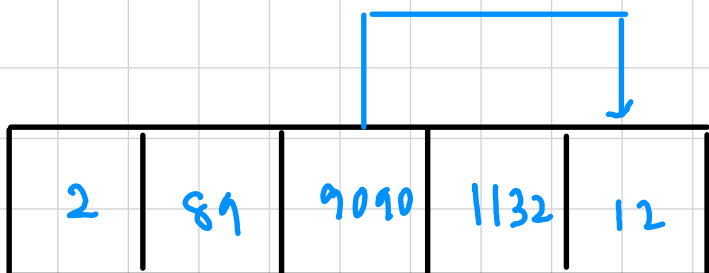
swap
method

temp = i
list.set(i, j)
list.set(j, temp)

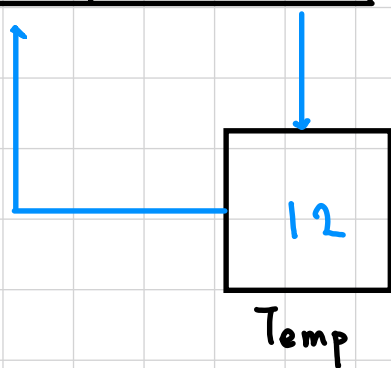
first

min-position

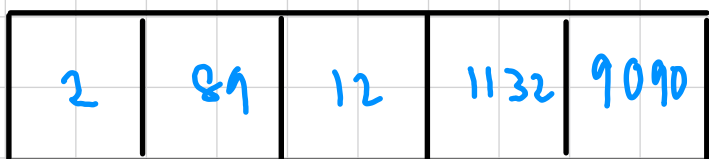
(swapping min-position
with the head (first index))



Swap (list, j, max-position)



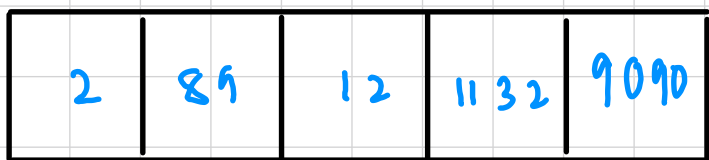
last
temp = i
list.set(i, j)
list.set(j, temp)
max position (swapping max-position with the tail (last index))



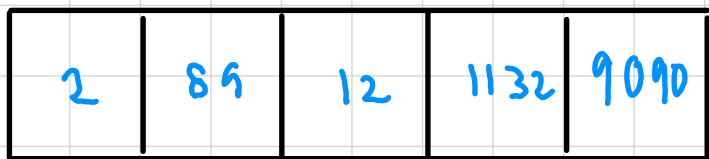
current position

start
min-position
max-position

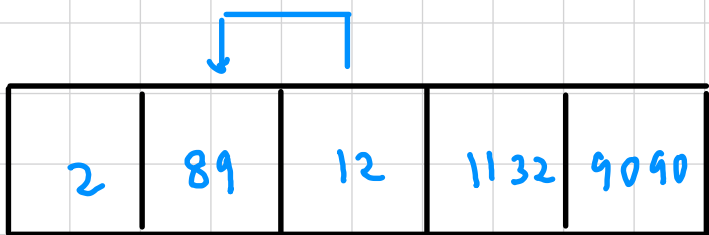
1 = 1



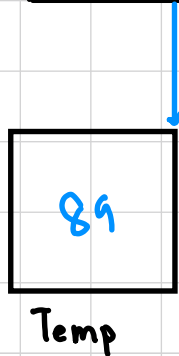
if (list.get(k) > max)
max = list.get(k)
max-position = k



if (list.get(k) < min)
min = list.get(k)
min-position = k



swap (list, i, min-position)



swap method

i+1
temp = i
list.set(i, j)
list.set(j, temp)
min-position (swapping min-position with the head (first index + 1))

2	12	89	1132	9040
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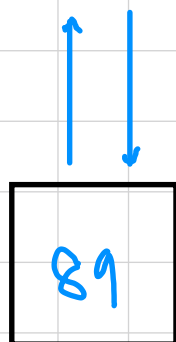
Temp

Swap (list, max, max-position)

2nd last index
temp = i
list.set(i, j)
list.set(j, temp)
max position (swapping max-position with the tail)

i = 2

2	12	89	1132	9040
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Temp

Swap

list.get (min-position) == max