COMP20005 Week 8

- Selection sort
 - > Iterative
 - ▶ Recursive
- calculate change revisited
- Project.

Selection sort

find_max (int AL), int i)

Find the endex of the largest element in A among A[0] to A[i] $A = 2 3 1 4 find_{max}(A, 2)$ $A = 2 3 1 4 find_{max}(A,$

Selection Sort

$$i = 3$$
, max_index = 3
 $0 \cdot 1 \cdot 2 \cdot 3$
 $2 \cdot 3 \cdot 1 \cdot 4$

i=2, $max_index=1$

	2		3		1/4/
,	O	1		2	3

i=1, max_index = 0

2	(_3	4	

$$\rightarrow \boxed{2 | 1 | 3 | 4}$$

$$\begin{array}{c|c}
i = 0 \implies DONC. \\
\hline
1 | 2 | 3 | 4
\end{array}$$