

Prob. 1

$$A = \{ 3, 1, 2, 4, 5, 8, 7, 6, 9 \}$$

A pivot p is such that all $A[i] < p$ are to the left of p and all $A[i] > p$ are to the right of p , after the array is partitioned.

Therefore, we have the following three candidates for pivot.

$$A = \{ \underbrace{3, 1, 2}_{< 4}, \boxed{4}_p, \underbrace{5, 8, 7, 6, 9}_{> 4} \}$$

$$A = \{ \underbrace{3, 1, 2, 4}_{< 5}, \boxed{5}_p, \underbrace{8, 7, 6, 9}_{> 5} \}$$

$$A = \{ \underbrace{3, 1, 2, 4, 5, 8, 7, 6}_{< 9}, \boxed{9}_p \}$$

Prob. 2

and

Prob 3

#2

Programming exercises.