Selection Procedure 5 Kth smallest element in an cerray 40, 20, 70, 80, 39, 47, 65, 75 K = 2 Output = 39 Sorted array 47,50,65,70 20,39 (40) m > K + Left Pivat 40 + Partition algo 3rd smaller element in an array Position Position = index +1

$$a = 1 b = 2$$
 $\log_{2}^{1} = 0, k = 1$
 $\log_{2}^{9} < K$