**프로그래밍언어 과제6**

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**1. Consider the following program written in C syntax: For each of the following parameter-passing methods, what are all of the values of the variables value and list after each of the three calls to swap?**

(a) Passed by value

swap(value, list[0]) 이후에-> value=2, list={1, 3, 5, 7, 9}

swap(list[0], list[1]) 이후에-> value=2, list={1, 3, 5, 7, 9}

swap(value, list[value]) 이후에-> value=2, list={1, 3, 5, 7, 9}

(b) Passed by reference

swap(value, list[0]) 이후에-> value=1, list={2, 3, 5, 7, 9}

swap(list[0], list[1]) 이후에-> value=1, list={3, 2, 5, 7, 9}

swap(value, list[value]) 이후에-> value=2, list={3, 1, 5, 7, 9}

(c)Passed by value-result

swap(value, list[0]) 이후에-> value=1, list={2, 3, 5, 7, 9}

swap(list[0], list[1]) 이후에-> value=1, list={3, 2, 5, 7, 9}

swap(value, list[value]) 이후에->- value=2, list={3, 1, 5, 7, 9}

(d) Python

swap(value, list[0]) 이후에-> value=2, list=[1, 3, 5, 7, 9]

swap(list[0], list[1]) 이후에-> value=2, list=[1, 3, 5, 7, 9]

swap(value, list[value]) 이후에-> value=2, list=[1, 3, 5, 7, 9]

**2. Consider the following program written in C syntax: For each of the following parameter-passing methods, what are all of the values of the variables value and list after each of the three calls to swap?**

(a) Passed by value-> list={1, 3}

(b) Passed by reference->list={2, 6}

(c)Passed by value-result -> list={2, 6}

(d) Python-> list=[1, 3]