Class Activity - 3/3/23

5. Consider the following program written in C syntax:

```c
void swap(int a, int b) {
  int temp;
  temp = a;
  a = b;
  b = temp;
}
void main() {
  int value = 2, list[5] = {1, 3, 5, 7, 9};
  swap(value, list[0]);
  swap(list[0], list[1]);
  swap(value, list[value]);
}
```

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

2, 1, 3, 5, 7, 9
2, 1, 3, 5, 7, 9
2, 1, 3, 5, 7, 9

B. Passed by reference

1, 2, 3, 5, 7, 9
2, 3, 1, 5, 7, 9
5, 1, 3, 2, 7, 9

C. Passed by value-result

1, 2, 3, 5, 7, 9
2, 3, 1, 5, 7, 9
5, 1, 3, 2, 7, 9

7. Consider the following program written in C syntax:

```c
void fun (int first, int second) {
  first += first;
  second += second;
}
void main () {
  int list[2] = {1, 3};
  fun (list[0], list[1]);
}
```

For each of the following parameter-passing methods, what are the values of the list array after execution?

   A. Passed by value

      1, 3

   B. Passed by reference

      2, 6

   C. Passed by value-result

      2, 6

What are some inputs that you think would be important for a machine learning investment tool? (Aladdin by BlackRock)

Stock Price, Historical Price(30 days), Industry, Price-To-Earnings Ratio,