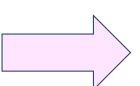
## C++ Programming

#5 함수

- 1) enum, struct
- 2) function call
- 3) const parameter
- 4) Call by reference

## 실습 문제



```
SORT
Rectangle Count: 3
     10 10 100
     30 30 900
     50 50 2500
CLEAR
PRINT
Rectangle Count: 0
ADD 25 40
ADD 10 20
PRINT
Rectangle Count: 2
     25 40 1000
     10 20 200
SORT
Rectangle Count: 2
     10 20 200
     25 40 1000
EXIT
```

```
void main() {
    vector<Rectangle> rectangles;
    while (true) {
         CommandType command = getCommandType();
         switch (command) {
              case ADD: {
                   const Rectangle& newRectangle = getRectangle();
                   rectangles.push_back(newRectangle);
                   break;
              case PRINT: {
                   print(rectangles);
                   break;
              case SORT: {
                   sort(rectangles);
                   print(rectangles);
                   break:
              case CLEAR : {
                   rectangles.clear();
                   break;
              case EXIT: {
                   break;
              default: {
                   assert (false);
                   break;
         if ( command == EXIT ) break ;
```

## 제약 조건

Use the Rectangle and CommandType

```
struct Rectangle {
    int width ;
    int height ;
};
enum CommandType { ADD, SORT, PRINT, CLEAR, EXIT} ;
```