Practical 1

Implementation of Sorting

Aim: Write a program in C to implement Quick and Merge sort using structure array. Structure should contain at least one integer, one string consists of two words.

Output:

```
Enter information of 5 books:
Enter book id: 45
Enter book's name : Data Structures
Enter book's author : James Miller

Enter book id: 23
Enter book's name : Basic Python
Enter book's author : Greg Hunt

Enter book id: 65
Enter book's name : Advanced Java
Enter book's author : Shawn Brue

Enter book id: 31
Enter book's name : Computer Science
Enter book's author : Frank Jine

Enter book id: 37
Enter book's name : Software Testing
Enter book's author : Henry Tute

How do you want to sort your library?  2

merge sorting
Sorted array in ascending order:
23
Basic Python
Greg Hunt

31
Computer Science
Frank Jine

37
Software Testing
Henry Tute

45
Data Structures
James Miller

65
Advanced Java
Shawn Brue

Would you like to perform more operations?
 1 for yes, 0 for no1

How do you want to sort your library?  1

quick sorting
```

P1: Entering data and merge sorting

```
<terminated> (exit value: 0) DS [C/C++ Application] /home/marilyn/eclipse-v
23
Basic Python
Greg Hunt

31
Computer Science
Frank Jine

37
Software Testing
Henry Tute

45
Data Structures
James Miller

65
Advanced Java
Shawn Brue

Would you like to perform more operations?
 1 for yes, 0 for no1

How do you want to sort your library?  1

quick sorting

Sorted array in ascending order:
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Would you like to perform more operations?
 1 for yes, 0 for no0
Exiting program
```

P2: Quick sorting on the same data