## Trước khi nộp:

- Clean and build project để tạo ra thư mục dist
- Đổi tên thư mục dist thành run

## Nộp bài

- Nén thư mục Q1 thành Q1.zip hoặc Q1.rar
- Nộp file vừa nén lên lms

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## **Question:** (5 marks)

In this question you should complete some methods in MyList.java file.

The class **Laptop** with 3 data members: **producer**, **weight** and **price** is given and you do not need to edit it. The MyList class is a linked list of Laptop objects. The following methods should be completed:

- void addLast(String xProducer, int xWeight, int xPrice). (Note: xWeight and xPrice must be bigger than 0).
- void **f1**() Do not edit this method. Your task is to complete the addLast(...) method above only. Output in the file f1.txt must be the following: (H,6,7) (C,4,5) (Y,5,8)
  - void **f2**() –There are 2 given Laptop objects v, w in this function. Suppose the list contains at least 3 elements. Write statements to insert v and w to the list so that w will be the 2nd, v will be the 3rd node. Output in the file f2.txt must be the following:

```
(D,4,7) (E,9,2) (Q,7,6)
(D,4,7) (W,1,7) (V,8,9) (E,9,2) (Q,7,6))
```

• void **f3**() – Delete the node holding the heaviest Laptop (maximum weight). If there are more than one node satisfying the requirement, delete the last of them. Output in the file f3.txt must be the following:

```
(B,9,2) (D,2,6) (E,9,4) (Q,4,5) (R,3,7) (B,9,2) (D,2,6) (Q,4,5) (R,3,7)
```

• void **f4**() – How many Laptops are there in the list? Hint: you should use f.writeBytes( ... ) to write the result to the output file. The output in the f4.txt file should be as follows:

```
(H,1,3) (I,3,7) (J,4,5) (K,5,6) (L,6,8)
```

• void **f5**() – Delete the first node, then swap the first and the last node. The content of the output file f5.txt must be the following:

```
<del>(N,6,1)</del> (A,9,3) (S,7,5) (D,3,9) (D,3,9) (S,7,5) (A,9,3)
```