```
public class Product{

    private Company company;
    public Product(Company company) {
        this.company = company;
    }

    public boolean producedBy(Company c) {
        return company==c;
    }
}
```

}

1

Drawing (4 marks):

Q3. (a) For each case, choose your answer from the choices: A, B, or C.

Case 1: The file *marks.txt* contains 2 marks:

40	
80	

Your answer: _____

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Α

A. Average is: 60
Report finished without error.

B. Average is: 60
File closed.
Report finished without error.

C. Average is: 60

Your answer: _____

Case 2: The file *marks.txt* exists but is empty.

A. Content is empty!
Report finished without error.

B. Content is empty!
File closed.
Report finished without error.

C. Content is empty!

Case 3: The file *marks.txt* does not exist.

Your answer: _____

A. Cannot open marks file! Report finished without error.

B. Cannot open marks file!
Content is empty!
File closed.
Report finished without error.

C. Cannot open marks file!

```
public static void main(String[] args)
{
      ArrayList<Integer> allMarks = new ArrayList<>();
     Scanner f = null;
     try {
         f = new Scanner(new File("marks1.txt"));
         while (f.hasNext()) {
              int mark = f.nextInt();
              allMarks.add(mark);
         analyzeMarks(allMarks);
         System.out.println("Report finished without error.");
      } catch (FileNotFoundException e) {
         System.out.println("Cannot open marks file!");
      } catch (InputMismatchException e) {
         System.out.println("Cannot read mark number!");
      } catch (ContentIsEmpty e) {
         System.out.println(e.getMessage());
      } finally {
         if (f != null) {
              f.close();
              System.out.println("File closed.");
if (marks.size() == 0)
             throw new ContentIsEmpty();
        int sum = 0;
        for (Integer m : marks)
              sum += m;
        System.out.println("Average is: " + sum / marks.size());
                               public class ContentIsEmpty extends Exception {
                                   public ContentIsEmpty() {super("Content is empty!");}
                                   public ContentIsEmpty(String msg) {super(msg);}
}
```