A Company manages many Stores. Each Store contains many Products. The UML diagram of this company system is represented as follow.

**Store class:** The class Store provides the following services:

- **addProduct** that adds a new product.
- **search** that accepts the name of product and returns True if exist, False otherwise.
- **deleteP** that accepts the name of product that has to be deleted. deleteP returns the deleted object.

**Company Class:** The Company class implements the following functions:

- **addStore** that adds a new Store.
- **searchNbofStore** that accepts the name of product and returns the number of stores containing the product.

**Question:** Implement Product, Store, and Company classes.