Name:_	Mohan	That	

Poly-Id: _	0520191	

Ok, so **how will you represent** all of this? You should be able to work out a good design, but let me "help" you.

- Since the baker hands over the collection of treats that he has baked, he needs to have a *pointer* to the collection. If the baker does not currently have any treats, then he also should not yet have a collection.
- No, don't ask me what sort of collection to use. Use whatever you like. But the baker better be free to bake and store as many treats in your container as needed. We don't know how many that will be.
- And the <u>collection itself needs to be on the heap</u>.
- When the baker bakes a treat, if he has no place to put it, either because he just came on the job or because he just delivered his collection to a company, he will first need to get / create another collection. Where? Again, obviously from the heap.
- The treats will later be repackaged and sold and eaten, finally being destroyed in the process.
 No you don't have to represent all of those steps, but clearly the treats must each exist on the heap so they can have an arbitrarily long shelf-life and can be moved about as needed by all the code that will use your class.

Sample test code:

```
int main() {
    Baker fred("fred");
    cout << fred << endl;
    fred.bakes("Twinkie");
    fred.bakes("Cupcake");
    fred.bakes("Twinkie");
    fred.bakes("Twinkie");
    fred.bakes("Cupcake");
    fred.bakes("Wonderbread"):
    cout << fred << endl;
    Baker joe("joe");
    cout << joe << endl;
    ioe = fred:
    cout << fred << endl;
    cout << joe << endl;
    // Don't implement Bakery
    Bakery hostess("Hostess");
    hostess.receives(fred.delivers());
    cout << fred << endl;
    cout << joe << endl;
}
```

Resultant output:

```
Baker: fred; No treats :-(
Baker: fred; Twinkie Cupcake Twinkie Twinkie Cupcake Wonderbread.
Baker: joe; No treats :-(
Baker: fred; Twinkie Cupcake Twinkie Twinkie Cupcake Wonderbread.
Baker: fred; Twinkie Cupcake Twinkie Twinkie Cupcake Wonderbread.
Baker: fred; No treats :-(
Baker: fred; Twinkie Cupcake Twinkie Twinkie Cupcake Wonderbread.
```