

### Assignment 3

Develop software using dynamic arrays (using the new and delete operators) that allows a user to enter the names of the athletic equipment below.

1. If Mark purchases four pairs of Nike basketball shoes, five Under Armour T-shirts, six Under Armour shorts, and one pair of Asics running shoes; print a receipt for the purchase including the total cost before and after tax. Assume the tax rate is 7.75%
2. Print an inventory list before and after Mark's purchase.
3. Your program **must** use at one pointer variable.
4. Put all your variables in a user defined namespace.
5. Your program **must** use at least three preprocessor directives other than `#include`.

Name of equipment	Cost	Quantity
Nike basketball shoes	\$179.99	25
Under Armour T-shirt	\$29.99	88
Brooks running shoes	\$121.44	13
Asics running shoes	\$165.88	12
Under Armour shorts	\$45.77	35