Gamesys Technical Task

Suppose you have a bookshop. A book has a title, price and year.

You want to support the following offers:
• All books published after 2000 have 10% discount.
• Buy books worth more than £30 in total, get a 5% discount on the total.

The following books are available
• Moby Dick (1851) £15.20
• The Terrible Privacy of Maxwell Sim (2010) £13.14
• Still Life With Woodpecker (1980) £11.05
• Sleeping Murder (1976) £10.24
• Three Men in a Boat (1889) £12.87
• The Time Machine (1895) £10.43
• The Caves of Steel (1954) £8.12
• Idle Thoughts of an Idle Fellow (1886) £7.32
• A Christmas Carol (1843) £4.23
• A Tale of Two Cities (1859) £6.32
• Great Expectations (1861) £13.21

Examples:
  • Buying The Terrible Privacy of Maxwell Sim, Three Men in a Boat will cost £24.69
  • Buying Still Life With Woodpecker, Three Men in a Boat, Great Expectations will cost £35.27
  • Buying The Terrible Privacy of Maxwell Sim, Three Men in a Boat, Great Expectations will cost £36.01

Please provide a software application which calculates the final amount to be paid when given a list of books. You can and should use more than one class in your solution. Consider the longevity of the application. How would one, for example, add another discount at a later date ? You should apply best practice in your solution. You should be able to provide some guarantee that the finished product works as expected.