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| **LAB101 Assignment** | **Type:** | **Short Assignment** |
| **Code:** | **C.S.P0015** |
| **LOC:** | **80** |
| **Slot(s):** | **2** |

**Title**

Wedding Invitations.

**Background Context**

There are actually many somewhat tricky test cases for this problem. Keep in mind that the cost of the two packages might be anything. In some cases you might go with all of one package. In other cases, you might need to go with only the other package. Finally, in cases like this sample, a mixture of the packages is necessary.

**Program Specifications**

Though Arup wants to just send a free E-vitation to all of his guests for his wedding, his fiancée will have none of it. She has put her foot down and has insisted that they mail out regular invitations. After doing some research, Arup found out that depending on the size of the packages of invitations ordered, there are different prices. He wants you to figure out how many of each package to order, in order to get enough invitations to mail out at the cheapest price. For the purposes of this problem, there are only two packages:

1. One with 50 invitations
2. One with 200 invitations

Each vendor has a different price for the two packages. You’ll ask the user to input these two prices, as well as the total number of invitations that need to be sent out. Your job will be to calculate how many of each package to buy for the best deal, and how much will be spent on invitations.

***Function details:***

1. Input Specification

* The cost of both packages (in dollars) will be positive real numbers less than 500.
* The number of invitations needed will be a positive integer less than 10000.

1. Output Specification

* The first line of output will specify the number of small packages to buy to minimize the cost of the order of invitations using the following format:

*You should order X small package(s).*

where X is the number of small packages to order.

* The second line of output will specify the number of large packages to buy to minimize the cost of the order of invitations using the following format:

*You should order Y large package(s).*

where Y is the number of small packages to order.

* The last line of output should include the total cost of the packages using the following format:

*Your cost for invitations will be $Z.*

where Z is the minimum cost in question outputted to two decimal places.

***Expectation of User interface:***

***~~20.5~~***

***~~100.5~~***

***~~300~~***

***~~=>141.50~~***

