

1. Create a **computer_trouble_shooting** program that prompts the user if an ailing computer beeps on startup and if the hard drive spins. If it beeps and the drive spins, print “Contact tech support”. If it beeps and the drive does not spin, print “Check drive contacts”. If it does not beep and the drive does not spin, print “Bring computer to repair center”. Finally, if it does not beep and the drive spins, print “Check the speaker connections”.

Draw a flow diagram first, before coding.

Organize your program into sections as per the Organization of Programs convention. Include a header.

Hint: Can use a table to organize the possibilities. This would be written during the analysis part of writing programs.

Beeping	Spinning	Action
Yes	Yes	Contact tech support
Yes	No	Check drive contacts
No	Yes	Check the speaker connections
No	No	Bring computer to repair center

2. A delivery service does not accept packages heavier than 27 kilograms or larger than 0.1 cubic meters (100, 000 cubic centimeters). Create a **package_check** application that prompts the user for the weight of a package and its dimensions. The program will check the conditions and print an appropriate message, for example, “package meets requirements”, “too large”, “too heavy” or both violation messages.
3. Modify 03.03.02 so that users can be designated a Prime user. If the order is from a Prime user, and the order is for 900 copies or more, then they are entitled to a 10% discount on their final price.