

SOFTWARE USAGE

In this software there are 2 input files named "prescription" and "medicaments". In "prescription", there's a prescription of a patient which includes patient's name, SSI type, prescription date and the medicaments he/she wants. And in the other input "medicaments" there's a list of medicament prices depends on SSI type and date. The software gets the names and quantities of the medicaments that the patient wants, gets their prices from the price list("medicaments" input) and creates a bill.

ALGORITHM

1-Read medicaments input line by line

1.1-Split every line by tab character.

1.2-Assign every part of the line to different string arrays.

2-Read prescription input line by line

2.1-Split every line by tab character.

2.2-Assign first line's first part to patient name, second to SSI type and third to date.

2.3-For every other lines, assign first part to the medicaments that patient wants, and second to the quantity of this medicament.

3-Check prices

3.1- Compare the medicaments that patient wants to the medicaments of the medicaments input. If matches, take the price.

3.2-If any other matches found, compare the new price to the other one and take the cheap one as the medicaments price.

4-Create the bill

4.1-Print the medicament name, its unit price, its quantity and multiple the price with quantity and print the subtotal.

4.2-Add all of the subtotals and print the total price.