

Operating System Course Project

How do we search for data in our input string?

- The plan is to implement a system that consists of **Labels** that point to where the desired data is stored in memory.
- This will be done by the user himself, by writing the desired instruction from the given list of instructions given below
 - GD (GetData)
 - PD (PutData)
 - LR (LoadRegister)
 - SR (StoreRegister)
 - CR (CompareWithReg)
 - BT
 - H (Halt)

For example,

The input string contains the following data : \$DTA HELLO WORLD

Now, we want to access the word *world* from this data. We will count the number of characters from the start, thus *world* is the 10th character. In the label, we will also specify the number of characters that we want to read, for example, here the length of the string *World*. Our final label will look like : **L010,6** . This is the first label, hence it has been indexed as **L0**. Further labels will follow subsequent indexing.

This is how we will read the data from the input string and then process it according to the instructions on the program card.