

1. Write a program that reads a tabular structure data from a file "data.txt" and save in 2d list. Data is separated by "Tab". Control characters must be eliminated from data. For example

```
12    state2
```

```
test  abc
```

```
26    cui
```

```
list=[["12","state2"],["test", "abc"], ["26", "cui"]]
```

2. Write a program that reads input data from file "file.txt" character by character and output each character separated by "tab". Some characters are separator, they should be titled with separator. { " ", ; , =, ==, (,), { , } } are separators.

3. Write a program that uses program 2 output and write it to file "output.txt"

4. write a program that reads data from file, and save it to list, with following sample data.

```
0      a      1
```

```
0      a      2
```

```
1      a      4
```

```
2      b      3
```

```
3      x      3
```

```
4      f      6
```

following should be the output

```
list = [ "0      a      1", "0 a      2", "1 a      4", "2 b      3", "3 x      3", "4 f      6"]
```

Do following tasks

1. Input a character from user

2. Input an integer from user

3. create an empty set

4. Iterate through list, split each element with "Tab", convert first value of splitted list to integer. If input character (in task 1) and second value of splitted list are equal and integer is equal to first value, then append last element of splitted list to set (defined in step 3).

At the end print the value of set.

For example suppose we enter "a" in step 1, and "0" in step 2, ultimate value of set will be {1,2}