Common Flow Chart Symbols

Terminator

Indicates the beginning or end of a program flow in your diagram.

Decision

Indicates a decision point between two or more paths in a flowchart.

Process

Indicates any processing function.

Data

Can represents any type of data in a flowchart.

Subroutine

Indicates a predefined (named) process, such as a subroutine or a module.

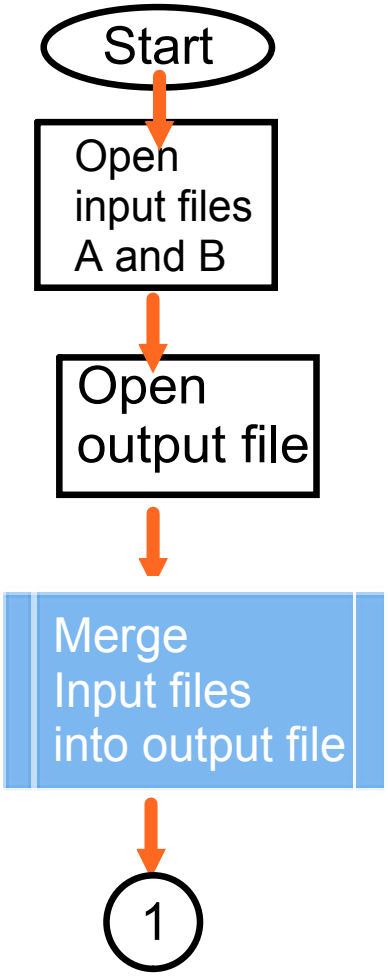
Connector

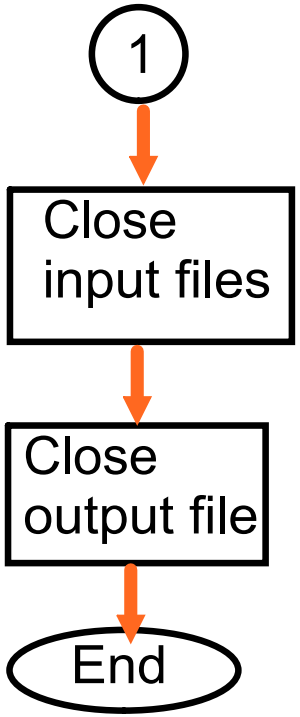
Indicates an inspection point.

Merge Files

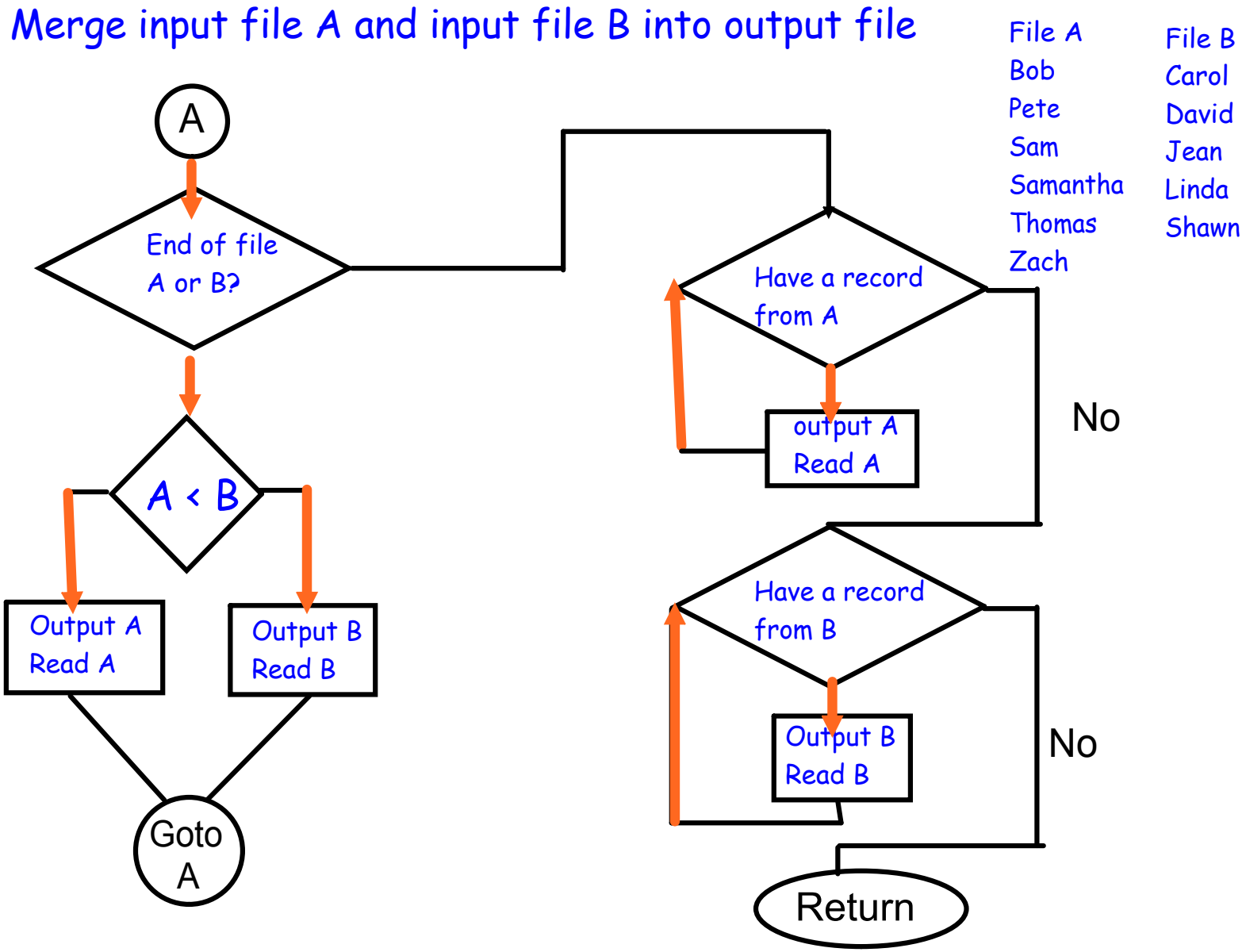
1) There are two files, both contains names that have been sorted ascending (in alphabetical order)
   a. Create a block diagram (flow chart) of a process that will read both files to create a single output file containing a merged list of names from both files. Review the Lab instructions examples of a flow chart.
   b. Write pseudo-code that implements the diagram from part A.

File A	File B
Bob	Carol
Pete	David
Sam	Jean
Samantha	Linda
Thomas	Shawn
Zach	





Merge Files


Merge input file A and input file B into output file
File A
Bob
Pete
Sam
Samantha
Thomas
Zach
File B
Carol
David
Jean
Linda
Shawn
A
End of file
A or B?
A < B
Output A
Read A
Output B
Read B
Goto
A
Have a record
from A
output A
Read A
No
Have a record
from B
Output B
Read B
No
Return

Merge input file A and input file B into output file

```
Open input files A and B
Open output file C
While (not EOF(A) and not EOF(B) )  do:
      if you don't have a record from A, read A
       if you don't have a record from B, read B
       If still not EOF(a) and not EOF(b)
        then compare A to B
              if A < B then
                    output A
                    you don't have a record from A
              If A >= B then
                    output B
                    you don't have a record from B
       end while
While not EOF(A)
       if you have a record from A then output A
       Read A
       end while
While not EOF(B)
       if you have a record from B then output B
      Read B
     end while
Close input files A and B
Close output file C
```