Write a well-designed and well-documented Java program that allows the user to harvest links from Web pages. Consult the API for the java.net package for some classes to help you. Your program will have the following capabilities:

1. Allow the user to choose a list of starting URLs.
2. Allow the user to specify the number of levels to search. The number 1 means only harvest the links from the starting URLs.
3. Allow the user to choose a depth-first (stack-based) or a breadth-first search (queue-based) for harvesting.
4. Allow the user to select the number of additional threads to be created to speed up the harvesting (0 to 10).
5. Compute and display the amount of time needed to perform the harvest. Some methods in the System class can help with this.
6. Do not allow a given URL to be visited multiple times.
7. Display the total number of links visited.
8. Display the number of links that were unreachable after a reasonable time-out value.
9. The harvested links should be displayed to look similar to the following example:

`www.csc.tntech.edu:
~dat
~hwang
~mab
~mjkosa
~mrogers`

`www.cs.umw.edu`
`www.cs.unc.edu`
`www.cs.vt.edu`

In other words, the locations should be sorted. All pages at the same location should also be alphabetized.