First, have the following programs installed in your ‘Applications’ directory:   
Bowtie2, SAMtools, BEDTools, and QUAST.

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To edit your PATH (.bash\_profile) on a MAC:

Open the terminal

Type cd <ENTER> to go to the HOME directory

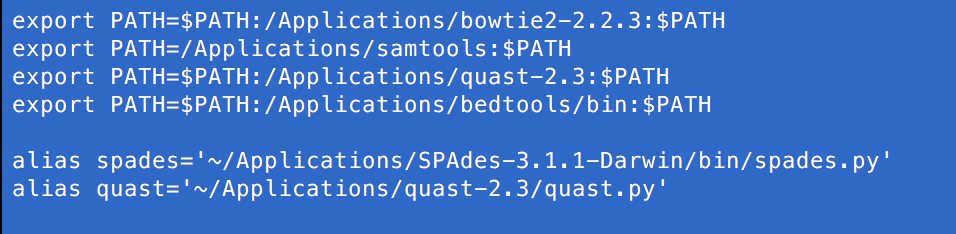
Type ls -alF to view all files in the HOME directory

If a .bash\_profile has NOT previously been created, Type touch .bash\_profile

If you have a .bash\_profile already, continue to the next step.

Type nano .bash\_profile to open the text editor.

Below are the paths to the executable files for each program. Type the following:



Hold <CONTROL> Type ‘o’ to save

Hit <ENTER>

Hold <CONTROL> Type ‘x’ to exit

Type source .bash\_profile

Open a new terminal window and cd to the directory that holds the contig and reference files.

Type sh U50\_Terminal\_SUBMISSION\_SCRIPT.sh <reference.fasta> <contig.fasta>

Example:

sh U50\_Terminal\_SUBMISSION\_SCRIPT.sh KT995530.fasta KT995530\_spades\_ctg.fasta

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If you have WINDOWS, please see: <https://www.java.com/en/download/help/path.xml>