

Start

Get string to search  
for from client (str)

Get current directory

Calculate  
max\_threads

cur\_threads = 1

Open directory (dir)

Is there another  
element in dir?

Is queue empty?

Set current directory  
to next directory in  
queue

cur\_threads--

Join all threads  
created from this  
one

End current thread

Check next element  
in directory (cur)

Is str a substring of  
cur's name?

Is cur a directory?

Finished with this  
element

Print cur's name and  
path to cur

max\_threads >=  
cur\_threads?

Create new thread  
with cur as directory,  
cur\_threads ++;

Add cur to queue

Next

Next if true

Next if false

Next in new thread