**Simplify Path**

**Approach 1: Stack**

# work to do

# 1) remove trailing slashes

# 2) remove multiple slashes

# 3) remove . and ..

stack = []

path = path.split("/")

for p in path:

# each directory separated by a single /

if p=="" or p==".":

continue

elif p=="..":

if stack:

stack.pop()

else:

stack.append(p)

# every directory must be separated by a /

return "/"+"/".join(stack)