

Made by: Tzvi Mints, Or Abuhazira, Eilon Tsadok

Created during a computer communication course during the second year at Ariel University in the Department of Computer Science, 2019

Purpose

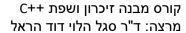
Run this program on your executable file in order to find if it is compile successfully, have no memory leaks, have no problem with the thread race.

How to use

Run this program from the terminal. such as the first argument is the path of the make file, the second argument is the name of the executable file, and the third argument is arguments if the program need for the running.

Possible outputs

Photo	State
etlon26@etlon26-VirtualBox:~/Documents\$./BasicCheck.sh ./FolderWithOutMakeFile output BasicCheck.sh ./FolderWithOutMakeFile <output> Makefile Not Found Compilation Memory leaks thread race FAIL FAIL FAIL Summary: 7</output>	Folder without Makefile
<pre>eilon26@eilon26-VirtualBox:~/Documents\$./BasicCheck.sh ./Check output BasicCheck.sh ./Check <output> Please 100 Compilation</output></pre>	Memory leak
eilon26@eilon26-VirtualBox:~/Documents\$./BasicCheck.sh ./Check output BasicCheck.sh ./Check <output> Please 100 Compilation Memory leaks thread race PASS PASS PASS Summary: 0 #include <tostream> #inclu</tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></tostream></output>	Normal
eilon26@eilon26-VirtualBox:~/Documents\$./BasicCheck.sh ./Check NoExistFile BasicCheck.sh ./Check <noexistfile> Compilation Memory leaks thread race FAIL FAIL FAIL Summary: 7</noexistfile>	No Exists File





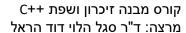
eilon26@eilon26-VirtualBox:~/Documents\$./BasicCheck.sh ./Check output

BasicCheck.sh ./Check <output>
Compilation Memory leaks thread race

PASS PASS FAIL
Summary: 1

Script explanation

Photo	Explanation
# This function is responsible to compile the input # Program and then go to step 3, which is memory check compile() { ./\$1 \$2 2>/dev/null if [\$7 -eq 0]	This function is responsible to compile the input. Program and then go to step 3, which is memory check
<pre># This function is responsible to check for memory leaks used by Velgrind memorychk() { valgrindleak-check=fullerror-exitcode=1 ./\$1 \$2 >/dev/null 2>81 if [\$? -eq 0]</pre>	This function is responsible to check for memory leaks used by Valgrind
<pre>#!/bin/bash Answer=(FAIL FAIL) # This function is responsible for print output to the screen output_to_screen() { echo "Compilation Memory leaks thread race" echo -e " \${Answer[0]} \t\t \${Answer[1]} \t\t \${Answer[2]}" echo -e "\t\t Summary: \$1" exit \$1 }</pre>	This function is responsible for print output to the screen
<pre># This function is responsible for making step 3 in the assignment step3() { compile \$1 \$2 first=\$? memoryth \$1 \$2 second=\$? threaddebugger \$1 \$2 third=\$? answer=\$((2#\$first\$second\$third)) output_to_screen \$answer }</pre>	This function is responsible for making step 3 in the assignment





```
This function is
  # This function is responsible for Thread debugger used by Helgrind threaddebugger() {
valgrind --tool=helgrind ./$1 $2 >/dev/null 2>&1
if [ $? -eq 0 ]
then
Apgres[2]=AASS
                                                                                                                                                responsible for
                                                                                                                                                Thread debugger
                                                                                                                                                used by Helgrind
                     Answer[2]=PASS
return 0
 cd $dir_path
find Makefile >/dev/null 2>&1
                      make >/dev/null 2>&1
if [ $? -eq 0 ]
then
                                 step3 $program $arguments
                                                                                                                                                Search for Makefile
                                 output_to_screen 7
                      echo "Makefile Not Found"
output_to_screen 7
                      echo "There Less Then 2 Arguments"
                                                                                                                                                Check if there currect
                                                                                                                                                amount of values
dir_path=$1
program=$2
shift 2
arguments=$@
# Print First Line
echo "BasicCheck.sh $dir_path <$program> $arguments"
```