**Homework #2: Due Oct 10 (Thur) 23:59.**

1. To write down kcov-branch-identify using Clang based on the provided template C++ file. kcov-branch-identify receives a file name of a single C file and prints the list of the branches and the total number of branches as follows for the attached example2.c:

function: f1

 If ID: 0 Line: 7 Col: 2

function: main

 If ID: 1 Line: 18 Col: 2

 If ID: 2 Line: 20 Col: 9

 For ID: 3 Line: 27 Col: 2

 While ID: 4 Line: 32 Col: 2

 Do ID: 5 Line: 37 Col: 2

 Case ID: 6 Line: 39 Col: 4

 Case ID: 7 Line: 42 Col: 4

 ?: ID: 8 Line: 43 Col: 9
Total number of branches: 17

1. To print out the branches in the attached grep.c file by using your kcov-branch-identify