

Assignment 3

Q 1) [5 marks] Is there a limit to the number of recursive calls you can make? Why so?

Q 2) [5 marks] Why do we need to do Register Spilling? What are the alternative styles to do this?

Q 3) [5 marks] We have seen different types of control flow instructions: unconditional branch (called jump in some ISAs), conditional branch, call, and return. Are they all needed, or are some of them redundant?