Theory of Computation

homework 1
Due: 9/30/2014

Problem 1 Why can't the input of a Turing Machine contain $\sqcup$s?

Problem 2 The TM on p. 28 of the slides halts with a "yes" if and only if the input string contains two consecutive 1's. That program assumes the input alphabet $\Sigma = \{ 0, 1, \sqcup, \triangleright \}$. Now, write a TM program for the same problem when $\Sigma = \{ 0, 1, 2, \sqcup, \triangleright \}$.