

CSc 245 Discrete Structures - Summer 2020

Quiz #6

Due Tuesday July 28th at 11:59pm (MST)

1. (4 points) Is the sequence $3, 2, 1, 0, 3, 2, 1, 0, 3, 2, 1, 0, \dots$ countable? Justify your answer?

2. (6 points) Prove using induction: $\sum_{i=1}^n i2^i = (n-1)2^{n+1} + 2$