CSc 245 Discrete Structures - Summer 2020

Quiz #6

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

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

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