Lecture 12 Highlights © Katy Craig, 2024 Thm: Every sequence on has a monotonic subsequence. Martin Hundred Lindow Demol

One more example of subsequences...  

$$s_n = (1, \frac{1}{2}, 3, \frac{1}{4}, 5, \frac{1}{6}, ...)$$
  
 $n_k = (3, 7, 8, 250, ...)$   
 $s_{n_k} = (3, 7, \frac{1}{8}, \frac{1}{250}, ...)$