1. Suppose that the list \( L \) equals \([100, ["ok", "is"], 1000, [1, 2], [[1, 2], [2, 3]], 1000]\). Write down the value of each of these expressions.

   (a) \( L[3:5][1:][0][1][1] \)

   (b) \((L[3:4] + L[4]).count([1,2])\)

   (c) \( L[2::3] \)

   (d) \((L[3] + L[4][1]).index(2)\)

2. Suppose that the list \( L \) equals \([100, ["ok", "is"], 1000, [1, 2], [[1, 2], [2, 3]], 1000]\). Write down the value of \( L \) after each of these Python statements. For each problem start with the (same) value of \( L \) given above.

   (a) \( del L[1::2] \)

   (b) \( L[2::3] = range(1,3) \)

   (c) \( L[3:] = [] \)
3. Write down the values of these expressions.
   
   (a) "Hello! Are you ok?".split()

   (b) "this is a test".replace(" ", ".")

   (c) "a".join("testing this".split("i"))