1. Write down what each of the following list comprehensions evaluates to.

   (a) \([\text{str}(x)[::-1]]\) for \(x\) in \(\text{range}(10, 15)\)
   (b) \([\text{int}(\text{str}(x)[::-1])]\) for \(x\) in \(\text{range}(10, 15)\)
   (c) \([10 + x + y\] for \(x\) in \(\text{range}(3)\) for \(y\) in \(\text{range}(4)\)
   (d) \([\text{range}(x, y)\] for \(x\) in \(\text{range}(3)\) for \(y\) in \(\text{range}(x, x+3)\)
   (e) \([y\] for \(x\) in \([\text{range}(z)\] for \(z\) in \(\text{range}(4)\) for \(y\) in \(x]\)
   (f) \([x\] for \(x\) in \(\text{range}(500)\) if "33" in \(\text{str}(x)\)\]
   (g) \([x+y\] for \(x\) in \(\text{range}(4)\) for \(y\) in \(\text{range}(5)\) if \(y - x > 2\)

2. Suppose that the list \(L\) equals \(L = \left[\text{"This", ["is", "a"]}, \text{"nested"}, \left[\text{"list", "with"}\right], \left[\text{"several", ["different"]}\right], \text{"levels", "of"}, \text{"nesting"}\right].\) Evaluate the following list comprehensions.

   (a) \([x.\text{split}(\text{"e")}\] for \(x\) in \(L\) if \(\text{len}(x) > 3\)
   (b) \([i\] for \(i\) in \(\text{range}(\text{len}(L))\) if "nest" in \(L[1]\))
   (c) \([x[0]\] for \(x\) in \(L\) if \(\text{type}(x) == \text{list}\)
   (d) \([y\] for \(x\) in \(L[:3]\) for \(y\) in \(x]\)
   (e) \([x\] for \(x\) in \(L\) if \(\text{type}(x) == \text{str}\)
   (f) \([y\] for \(x\) in \(L\) for \(y\) in \(x\) if \(\text{type}(x) == \text{list}\) and \(\text{type}(y) == \text{str}\)\]