# Adding Changing or Deleting Items

**Lists** are **MUTABLE**, ie: their elements (objects in the list) can be changed

**Strings, integers, float and Boolean** data types are **IMMUTABLE**. (you can’t change the data that is stored in them.)

Use this table to answer the questions that follow.

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| Python Code | Result of print statement |
| odd\_num = [2, 4, 6, 8, 16, 20]  print (f” The original list {odd\_num}\n”)  odd\_num[0] = 1  print (f” 2nd print {odd\_num}\n”)  odd\_num[1:4] = [3, 5, 7]  print (f” 3rd print {odd\_num}\n”)  del odd\_num[4:6]  print (f” 4th print {odd\_num}\n”)  odd\_num.append(9)  print (f” 5th print {odd\_num}\n”)  odd\_num.extend([11, 13, 15])  print (f” 6th print {odd\_num}\n”)  print (f” 7th print “, end = “ “)  print (odd\_num + [17, 19, 21])  numbers = [1, 17]  print (f” \n8th print original numbers list {numbers}\n”)  numbers.insert(1, 11)  print (f”9th print {numbers}\n”)  numbers[1:1] = [3,5,7,9]  print (f”10th print {numbers}\n”)  numbers[6:6] = [13, 15]  print (f”11th print {numbers}\n”) | The original list [2, 4, 6, 8, 16, 20] |

1. Using the code: **odd\_num[0] = 1**, what does the 0 represent?

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1. Which items of the list are affected (the 1st, 2nd, 3rd item etc.…)?

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1. What does the code do?

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1. Using the code: **odd\_num[1:4] = [3, 5, 7],** what does the 1 represent and the 4 represent?

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1. Which items of the list are affected (the 1st, 2nd, 3rd item etc.…)?

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1. What does the code do?

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1. Using the code: **del odd\_num[4:6]** What does the 4 and the 6 represent?

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1. Which items of the list are affected (the 1st, 2nd, 3rd item etc.…)?

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1. What does the code do?

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1. What happens when you run the code **odd\_num.extend([11, 13, 15])**

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1. What is the difference between .append and .extend?

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1. What does the code **print (odd\_num + [17, 19, 21])** do?

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1. Using the code: **numbers.insert(1, 11)**, what does the 1 represent and the 11 represent?

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1. What does the code do?

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1. What does this code **numbers[1:1] = [3,5,7,9]** do?

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1. Where in the list is this data inserted?

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1. What does this code **numbers[6:6] = [13, 15]** do?

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1. Where in the list is this data inserted?

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