List of interview Q & A

1. **Merging two sorted list**

2. **Get word frequency - initializing dictionary**

3. **Initializing dictionary with list**

4. **map, filter, and reduce**

5. **Write a function f() - yield**

6. **What is __init__.py?**

7. **Build a string with the numbers from 0 to 100, "0123456789101112..."**

8. **Basic file processing: Printing contents of a file - "with open"**

9. **How can we get home directory using '~' in Python?**

10. **The usage of os.path.dirname() & os.path.basename() - os.path**

11. **Default Libraries**

12. **range vs xrange**

13. Iterators

14. Generators

15. Manipulating functions as first-class objects

16. docstrings vs comments

17. using lambdda

18. classmethod vs staticmethod

19. Making a list with unique element from a list with duplicate elements

20. What is map?

21. What is filter and reduce?

22. *args and **kwargs

23. mutable vs immutable

24. Difference between remove, del and pop on lists

25. Join with new line

26. Hamming distance

27. Floor operation on integers

28. Fetching every other item in the list

29. Python type() - function

30. Dictionary Comprehension

31. Sum

32. Truncating division

33. Python 2 vs Python 3

34. len(set)

35. Print a list of file in a directory

36. Count occurrence of a character in a Python string

37. Make a prime number list from (1,100)

38. Reversing a string - Recursive

39. Reversing a string - Iterative

40. Output?

41. Merging overlapped range

42. Conditional expressions (ternary operator)

43. Function args

44. Unpacking args

45. Finding the 1st revision with a bug

46. Which one has higher precedence in Python? - NOT, AND , OR

47. Decorator(@) - with dollar sign($)

48. Multi-line coding

49. Recursive binary search

50. Iterative binary search

51. Pass by reference

52. Simple calculator

54. Converting domain to ip

55. How to count the number of instances

57. Calling a base class method from a child class that overrides it

58. How do we find the current module name?

59. Why did changing list 'newL' also change list 'L'?

60. Construction dictionary - {key:[]}

61. Colon separated sequence

62. Converting binary to integer

63. 9+99+999+9999+...

64. Calculating balance

65. Regular expression - findall

68. Copy an object

69. Filter

73. __dict__

74. Fibonacci I - iterative, recursive, and via generator

75. Fibonacci II - which method?

76. Stack

77. Finding duplicate integers from a list - 1

78. Finding duplicate integers from a list - 2

79. Finding duplicate integers from a list - 3

80. Reversing words 1

82. Palindrome / Permutations

83. Constructing new string after removing white spaces

84. Removing duplicate list items

85. Dictionary exercise

86. printing numbers in Z-shape

87. Factorial

88. lambda

89. lambda with map/filter/reduce

90. Number of integer pairs whose difference is K

91. iterator vs generator

92. Recursive printing files in a given directory

93. Bubble sort

95. Word count using collections

97. List of anagrams from a list of words

98. lamda with map, filer and reduce functions

100.   histogram 1 : the frequency of characters

101.   histogram 2 : the frequency of ip-address

102.   Creating a dictionary using tuples

103.   Getting the index from a list

104.   Looping through two lists side by side

105.   Dictionary sort with two keys : primary / secondary keys

106.   Writing a file downloaded from the web

111.   Printing full path

112.   str() vs repr()

113.   Missing integer from a sequence

114.   Polymorphism

115.   Product of every integer except the integer at that index

117.   N-th to last element in a linked list

118.   Implementing linked list

119.   Removing duplicate element from a list

120.   List comprehension

121.   .py vs .pyc

122.   Binary Tree

123.   Print 'c' N-times without a loop

125.   Dictionary of list

127.   str.isalpha() & str.isdigit()

128.   Regular expression

130.   Convert a list to a string

131.   Convert a list to a dictionary

132.   List - append vs extend vs concatenate

133.   Use sorted(list) to keep the original list

134. list.count()

135. zip(list,list) - weighted average with two lists

136. Intersection of two lists