Searching, sorting & efficiency

Python Reference · Vocabulary in context

Word	Example
search /sɜːtʃ/	Linear **search** checks each item one by one.
linear search /ˈlɪnɪə sɜːtʃ/	A **linear search** checks each item one by one.
binary search /ˈbaɪnəri sɜːtʃ/	**Binary search** halves the list each time.
sort /sɔːt/	**Sort** the list so the smallest number comes first.
bubble sort /ˈbʌbl sɔːt/	**Bubble sort** swaps two items next to each other if they are in the wrong order.
swap /swɒp/	Bubble sort will **swap** two items that are in the wrong order.
insertion sort /ɪnˈsɜːʃn sɔːt/	**Insertion sort** puts each new item in the right place.
efficiency /ɪˈfɪʃənsi/	A lamp with 20% **efficiency** turns only a fifth of its energy into light. 20%
Big-O /bɪg əʊ/	Linear search is **Big-O** of n: the time grows with the length of the list. n
seed /siːd/	A **seed** has the whole file and shares it.
simulation /ˌsɪmjʊˈleɪʃn/	A **simulation** can model how traffic moves through a town.

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