Input Length	Worst Accepted Time Complexity	Usually type of solutions
10 -12	O(N!)	Recursion and backtracking
15-18	$O(2^N * N)$	Recursion, backtracking, and bit manipulation
18-22	$O(2^N * N)$	Recursion, backtracking, and bit manipulation
30-40	$O(2^{N/2} * N)$	Meet in the middle, Divide and Conquer
100	$O(N^4)$	Dynamic programming, Constructive
400	$O(N^3)$	Dynamic programming, Constructive
2K	$O(N^{2*} \log N)$	Dynamic programming, Binary Search, Sorting, Divide and Conquer
10K	$O(N^2)$	Dynamic programming, Graph, Trees, Constructive
1M	O(N* log N)	Sorting, Binary Search, Divide and Conquer
100M	O(N), O(log N), O(1)	Constructive, Mathematical, Greedy Algorithms