

# Japan bangladesh economic relationship

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Time complexity is usually calculated in terms of the number of times certain operations are carried out by an algorithm, e. G. , the number of additions or subtractions, the number of multiplications, the number of comparisons made (if statements). Typically, we count the number of times a certain operation, e. G, a comparison, and give a Big-O estimate. There are three possible cases of interest: Best-case: by sheer, dumb luck, what is the easiest problem we might have to solve? Worst-case: by sheer, bad luck, what is the worst problem we might have to solve?

Average-case: what is the mean complexity over all possible sets of inputs.

CASES/209 ? Lecture 4: Best, Worst, and Average Case Complexity 3/1 1 Of these, " best-case" is the easiest and " average-case" is the hardest. " Worst-case" is the most important (why? ) and turns out to be asymptotically similar to average-case. Japan Bangladesh Economic Relationship By Kaisers  $k = |k-1| - 1$ . Exercise Prove that  $|Q-I| = k(k-1)+1$  Lecture 4: Best, Worst, and Average Case Complexity CASES/209 ? Example: Binary Search Recall the Binary Search algorithm?

The Binary Search Algorithm Find the index of the element  $x$  in the ordered list  $\{a_1 < a_2 < a_3 < \dots < a_n\}$ . 1 Split the list into two sublists  $a_1, a_2, \dots, a_{\lfloor n/2 \rfloor + 1}$ , and  $a_{\lfloor n/2 \rfloor + 2}, \dots, a_n$

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