Case name: Eine kritische Auseinandersetzung mit der Dissertation von Prof. Dr. : GB
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Binary Search exampleAlgorithms for SearchingExample: A={2,3,5,6,13,15,19,23} findVal=13inf=0, sup=7 While(inf{mid=3if A[3]=6>13elseinf=3 while cond. 3mid=5if A[5]>13sup=5 while cond. 3mid=4if A[4]>13else}Order: Note that at everywhile-iteration, we aresplitting the search inhalf the length of thearray, then in half thehalf of the length of the array, etc:n, n/2, n/4, n/8,Thus, the order of thealgorithm is:n/2' 0(log n)Note that for best-caseand average case the order is also:Q(log n), 6(Q(log n)Binary Search algorithm{Input: Sorted array int[] A;int BinFind(int[] A,int findVal)int inf=0;int sup=A.Length-1;while(inffindval)sup=mid_Insa tnnSc:tMhReveneNumban" MergeSanwIhRsveueN. n'ber1: m sec Quck Son wlh PovervaNunben. 28ml =¢¢Inse:tbnSmuAlhRa1da'n Numbers 2&S61m1lsecMug: Sui vlh Rmdan Nmbn 145mlis=c QuckSoI(wi1hRond.1mN\.mbc s: 35r1I'lisa:.50508rIllia9c95 lllmm Rana .17-67890!lnaauon Sontmh kveno Numbers :50566mIluac MergeSanw hRavonoN.nrbn: 120n-nlnecOack Soot with Reverse Numbers. 19nIll:eclnsenbn Sm ulh Random Numbers 26732n1llse1: Ha? Snâ€⁻! wih Rmdun Nurbcs '147 rl i!zQua: Sod with Random Nirnbcm '3Gr1iliaocHound!Ili' 78Wuw¬,¬,Example: A={2,3,5,6,13,15,19,23}findVal=13inf=0, sup=7Binary Search exampleAlgorithms for SearchingWhile(inf[mid=3if A[3]=6>13elseinf=3 while cond. 3mid=5if A[5]>13sup=5 while cond. 3mid=4if A[4]>13else}Order:Note that at everywhile-iteration, we aresplitting the search inhalf the length of thearray, then in half thehalf of the length of the array, etc:n, n/2, n/4, n/8,Thus, the order of thealgorithm is:n/2' 0(log n)Note that for best-case and average case theorder is also:Q(log n), 6(Q(log n)Binary Search algorithm [Input: Sorted array int[] A;int BinFind(int[] A,int findVal)int inf=0; Â\$Â\$Â\$Â\$Â\$Â\$Â\$Â\$Â\$Â\$Â\$Â\$Â\$Â\$Â\$Â\$Â\$Â\$Â\$
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