Case name: Eine kritische Auseinandersetzung mit der Dissertation von Prof. Dr. : VS2

Note:

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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 ofthe 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(inf$^{findval)sup=mid}$lnsa|tnnSc:tMhReveneNumban" MergeSanwIhRsveueN.|n'ber1: m sec Quck Son wlh PovervaNunben. 28ml|=Â¢Â¢lnse:tbnSmuAlhRa1da'n Numbers 2&S61m1lsecMug: Sui vlh Rmdan Nmbn 145mlis=c QuckSoI(wi1hRond.1mN\.mbc|s: 35r1I'lisa:.50508rIllia9c95 lllmm Rana .l 7-67890!lnaauon Sontmh kveno Number: :50566mIIuac MergeSanw|hRavonoN.nrbn: 120n-nlnecOack Soot with Reverse Numbers. 19nIll:eclnsenbn Sm ulh Random Numbers 26732n1Ilse1: Ha? Snâ€˜! wih Rmdun Nurbcs ' 147|rI|i!zcQua: Sod with Random Nirnbcm ' 3Gr1iliaocHound!lIi'|78Wuwï¬,ï¬,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 ofthe 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§22%Â§gasaasssggÂ©sasazeÂ§Â§Â§Â§Â§aazsÂ§Â§Â§sÂ§Â§Â§â€˜ lru.\1Fl8\0c.[7880-57890! lnsa|tnnSc:tMhReveneNumban" MergeSanwIhRsveueN.|n'ber1: m secQuck Son wlh PovervaNunben. 28ml|=Â¢Â¢lnse:tbnSmuAlhRa1da'n Numbers 2&S61m1lsecMug: Sui vlh Rmdan Nmbn 145mlis=cQuckSoI(wi1hRond.1mN\.mbc|s: 35r1I'lisa:.50508rIllia9c95 lllmm Rana .l 7-67890!lnaauon Sontmh kveno Number: :50566mIIuacMergeSanw|hRavonoN.nrbn: 120n-nlnecOack Soot with Reverse Numbers. 19nIll:eclnsenbn Sm ulh Random Numbers 26732n1Ilse1:Ha? Snâ€˜! wih Rmdun Nurbcs ' 147|rI|i!zcQua: Sod with Random Nirnbcm ' 3Gr1iliaocHound!lIi'|78Wuwï¬,ï¬,

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myPane.AddCurve(Binary ,for(inti=0;iinput.Add(rnd.Next(size)); DiamOnd)_' Iinput.Sort();int[] inputSearch =input.ToArray(); Lineâ€˜-tern mygu rvez = _ HmyPane.AddCurve(Sequential ,int findVa| = rnd.Next(inputSearch.Length); |i5-[2, CQ |Q r_ B | u eâ€™ bg pe rc|e); u_m2u H H l5 ,, "-1" n n Iâ€œ n a .--. ._ -. .--. ._ _. .__. J3- 2 r.â€˜-I II-I . n ,,.F.1':.,1" n H ':| H" u u U:' "u u i || u III IIIH[I L 1- 1- â€”i- â€”|- â€”i- D-4 [L5 [LB H] 12 "I1 Tm all 55]]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 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;int sup=A.Length-1;while(inf{mid=(inf+sup)/2if (A[mid]>findval)sup=midelse inf=mid}if (A[inf]==findVal)return infelsereturn -1}}Two code snippets that may help youint minSize = 10000; Iam maxSize=1000000; / / plgtti n gRandom rnd = new Random();Stopwatch timer = Stopwatch.StartNew(); G fa p h Pa ['1 e myPa ['1 e =PointPairList timerTicks = new PointPairList(); Zed G ra p h C0 n-trO|1 ra p h Pa n e; PointPairList timerTicks2= new PointPairList(); _myPa ne.Cu rveL|st.Clea r();for (int size = minSize; size { .input = new List(size); Ll neltem rnygurve =" input.Add(rnd.Next(size)); DiamOnd)_' Ihttp:[/www.codeproiect.com/KB[graphics/zedgraph.aspxme ... _ I --5 ___.___._ __|___|___|__ .i..|..|.|â€”|...|....|....|..|.|â€”|..|â€”|.i..|..|._ u_m2u H H l5 ,, "-1" n n Iâ€œ n a .--. ._ -. .--. ._ _. .__. J3- 2 r.â€˜-I II-I . n ,,.F.1':.,1" n H ':| H" u u U:' "u u i || u III IIIH[I L 1- 1- â€”i- â€”|- â€”i- D-4 [L5 [LB H] 12 "I1 Tm all 55]]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 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;int sup=A.Length-1;while(inf{mid=(inf+sup)/2if (A[mid]>findval)sup=midelseinf=mid}if (A[inf]==findVal)return infelsereturn -1}}Two code snippets that may help youint minSize = 10000; Iam maxSize=1000000; / / plgtti n gRandom rnd = new Random();Stopwatch timer = Stopwatch.StartNew(); G fa p h Pa ['1 e myPa ['1 e =PointPairList timerTicks = new PointPairList(); Zed G ra p h C0 n-trO|1 ra p h Pa n ePointPairList timerTicks2= new PointPairList(); _myPa ne.Cu rveL|st.Clea r();for (int size = minSize; size { .input = new List(size); Ll neltem rnygurve ="myPane.AddCurve(Binary ,for(inti=0;i