

the 'visited'. If it is, then we don't push that hade into the tringe. This way we won't exceed the limit. lask 6 3 a) Every node holds a size of 1 Kb in memory, so we can't have more than so nodes. But none of the search algorithms can guarantee to actieve so kb of memory BEN - O(Pati) space peoperty DFS - OChm) Iterative -> O(bd) uniform - O(p((()E)) Nodes agreeated No generated. We on't have node than 832 nodes. According to the calculations shown above only Iterative Duping send an salue the publish as 1 generates between 400 & 832 nodes so It won't exceed \$23 Kb

Red Yellow Yellow Blue Yellow Yellow Red h (blue) = 1 h (green) = 2 h (red) = 3 h (yellow) = 4 h(black) = 0 Task 2: Birn ingham Bristal - Level 3 Beilin, Nivemberg, Mag debing Larel 2 bready, Beenly, Hamburg, Luebeck, Bremen Limit 0 - Dreiden Beelin Lint 1 - Dresden, Lame Limit 2 - Dresden, Lespay Nucemburg, Majdebugg

Lingit B Deasden, Leipzig, Durenburg, Musich Lingit Und Deasden, Leipzig, Durenburg, Musich Uniform Cost -> Dresden (0), Leipzig (119), Berling (204), Magdeburg (119+125), Nucemburg (119+263) Task 4; Smallest cost from G to all other modes B-14 C-10 A -> 17 D -> 12 F -> 4 E- 7 - h(A), h(B), h(G), h(G) Hewistic 23 may - has, held, held, h(D), h(E), h(F), h(G) Modified -> 17 14 10 12

Memistic 3: Non-admissible Modify - h(a) Modified - 0 Hemistic 4: Admissible

Henristic S: Admissible

