DSA Exam S2

11 Struct for flights -> implemented as an unordered list typedel struct flight & chor name [30]; Struct flight * mext; // limked-list Struct pass * head; //-) this struct should be the first 3 Plight; para 16 in code to have the implementation 11 Struct for passengers -> implemented as an ordered list typedel struct pass & long code; // enough for 8 dizits struct pass & mext; // linked list 3 pars; flight # list; // main list as glabal pointers Void remove-pass (long code) { flight *p = list; // ga through the flight list while (p= NULL) { I check for each Plight for the specific pursunger. pass* pass-list = p -> head; while (pass-list)= NULI) EM iterate through each
if (pass-list > code == code) & passemger

premore pass-list entry saist frext = pass-lists next; //fit last alem, this will be Whack if pass-list is head of list if & pass-flist == / At -s head) { p-shead = mext; If bree memory and create a link Hiterate with the next pointer to keep last occurrence / in memory 11 first pointer - edge case if (pass-list 1= NULL 22 pass-list -> code == code){ pass + mext = pass-list-) mext; Fell (pass_list); P-shead = mext; Il mow iterate with next pointer if pass list not mult if (pass_list = = NULL) Continue; while (pars-list-) next!=MULL) { Il if condition for removal met an next, remove it. if (pass_list-) mext-> code == code) { pass* next = pay list -> next -> maxt; free (pass-list-s next); pass_list > next = next; // link the list back pass_list = pass_list > mext;

I after this while, we go to the next flight in the list P=P-) mext; O (*M) complaits where M istotal number of passingers. From all planes.