Cpts 350 hwo. Solutions (Sketch) 1. lunt: n. Outpit: yes/No on the gustin 2. It's alg, since k in C as an int-var, has a bounded range. Program crashes once & is out of the range, if i=0. K takes 1 memory word. 3. It's not alg, since it runs frever, when say, i=0. K takes in f. memory.

4. 26=64 and hence student takes at least to bits. least lo bits. 5. P is not an alg, otherwise halting problem (whether Q runs frever) for C-programs is decidable which is not correct.