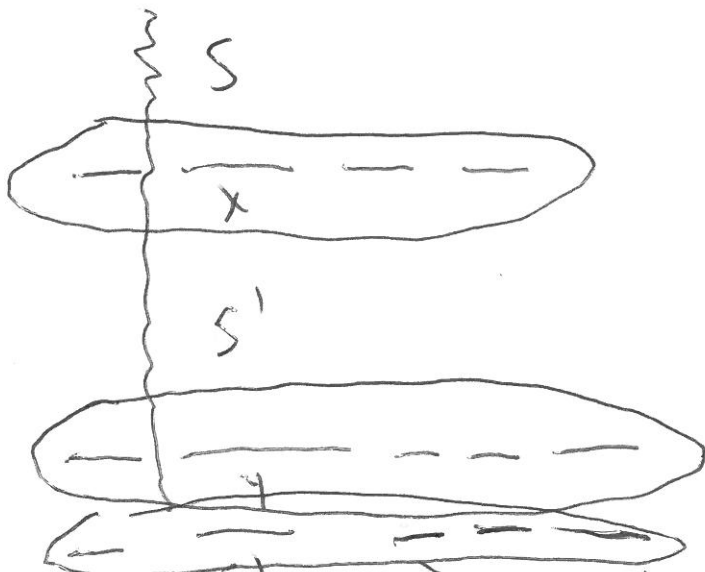


\exists start & duration t such that Greedy Search finds an incorrect answer. Let S is set output by GS, and $\exists S'$ that is non-overlapping and $|S'| > |S|$.



$\exists y \in S'$ that is not in S . Let y be the earliest.

Since $y \notin S$, GS must have selected an overlapping w/s x . B/c GS selected x , x ends before y .

Consider $T = S' - \{y\} \cup \{x\}$. $|T| \geq |S'| > |S|$.

All workshops earlier than x are non-overlapping b/c GS. Every w/s after y in T was after and

of p , which is after and of x . Therefore
 T contains no over laps. Repeating this
process, we produce a new solution T' ,
where $|T'| \geq |S|$, but $|T'| = |S'| > |S| = |T|$.