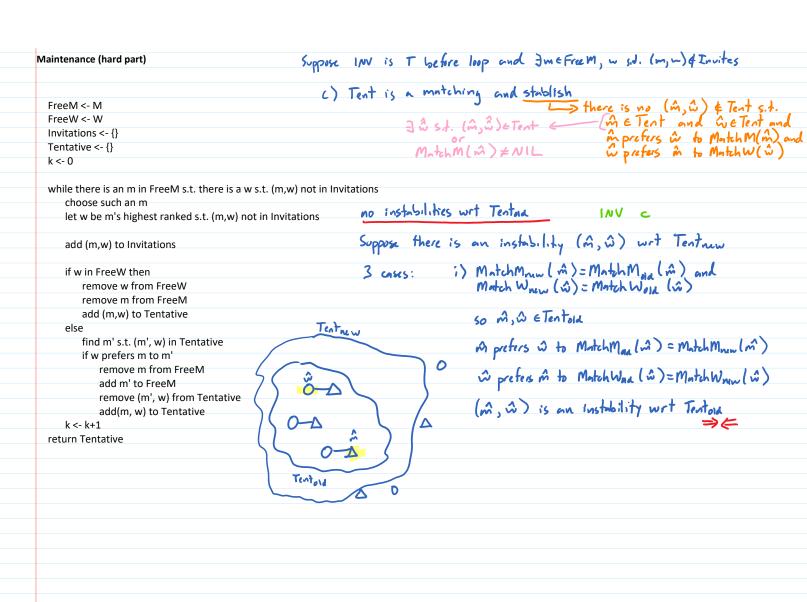
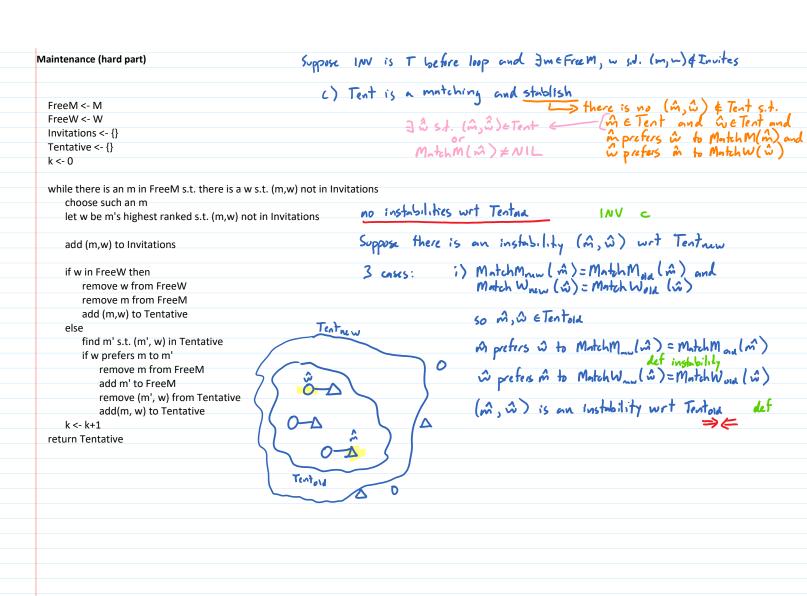
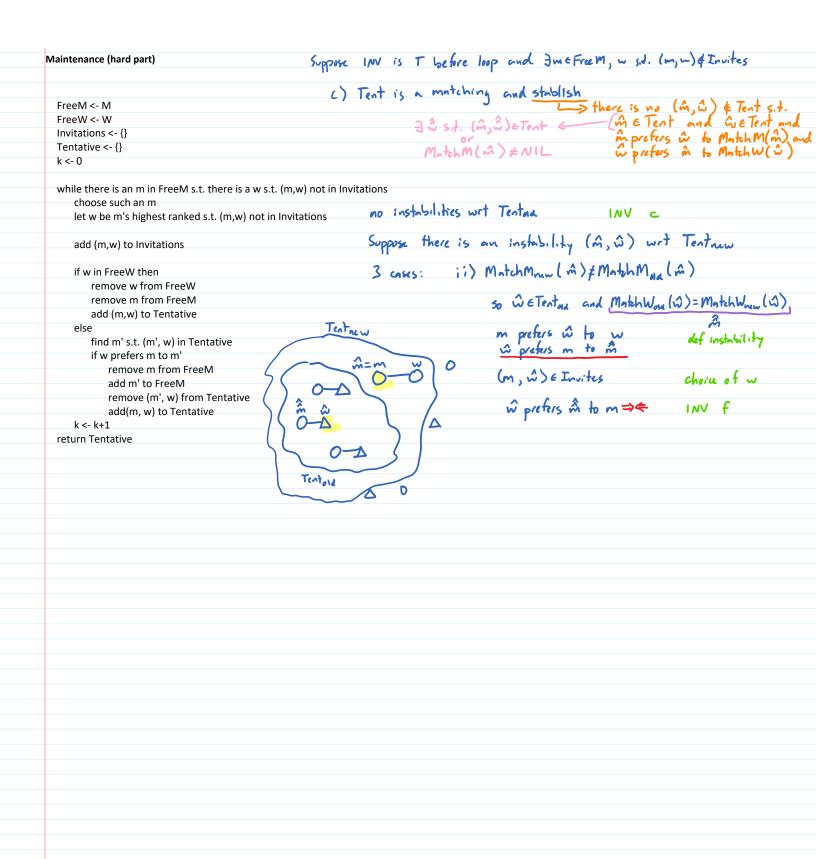
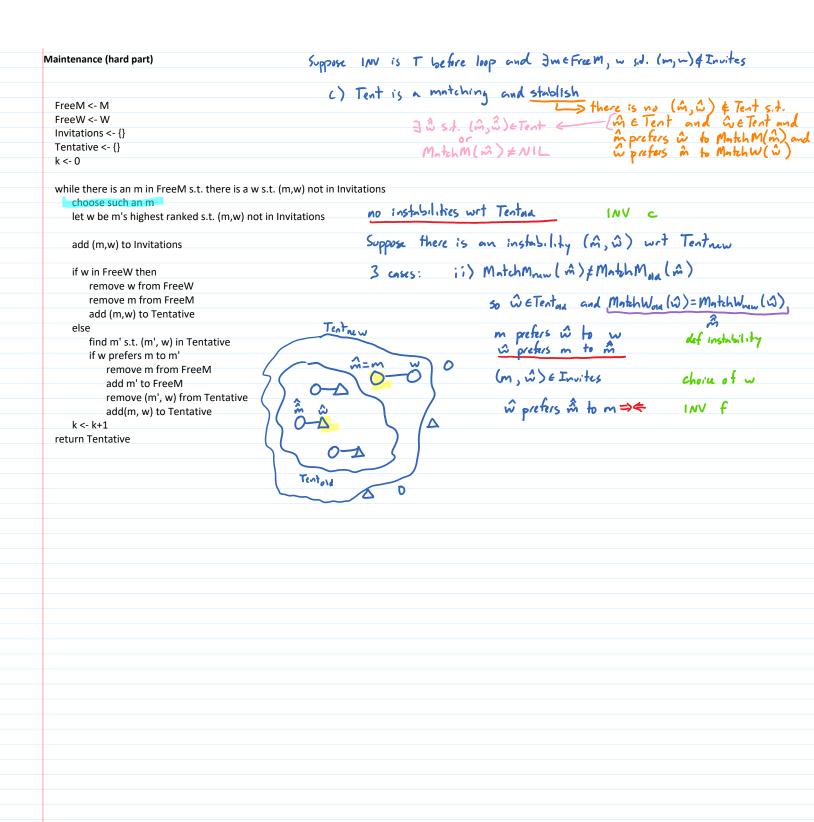
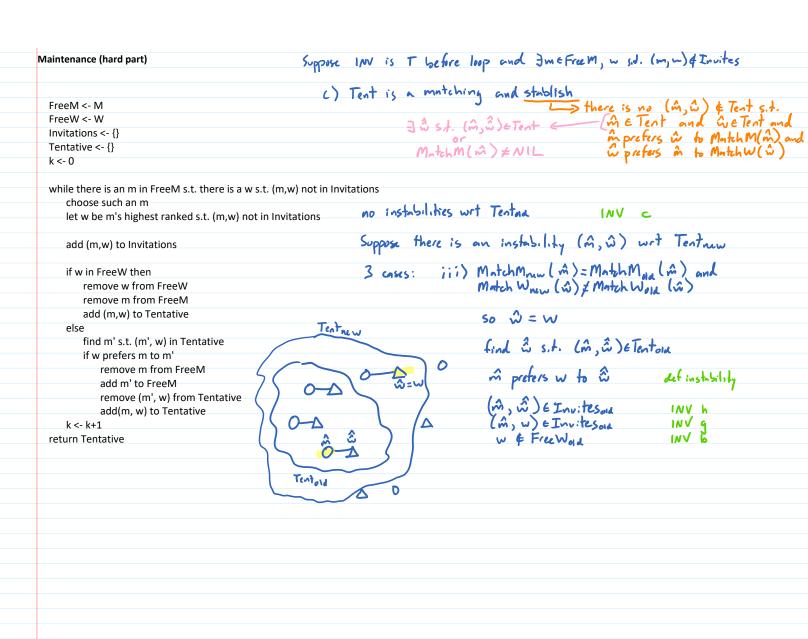
Invariant	
a) Vm, m & FreeM \(\infty\) \(\frac{1}{2}\mu\) s.t. (m, \(\infty\) \(\infty\) \(\ta\) \(\ta\). \(\ta\) \(\ta\) \(\ta\) \(\ta\).	of FreeM, FreeW keep
Vw, w & FreeW ← ∃m (,1. (m,w) & Te.	of track of unmatched MyW
b) Yw, we FreeW -> -> -> Im s.t. (m,w) & Inv	ites free welders are exactly those with no received invitations
c) Tent is a matching and stubleish, stuble when	ignoring unmatched machinists, welders
The value of MatchW(w) after j iteration e) $\forall w$, $j \in k$, $MatchW_{j}(w) \neq ML \rightarrow MatchW_{j+1}(w)$ $\Rightarrow max \ over \ w's \ preference$ $\Rightarrow max \ over \ over$	ns one w reales first invitation
e) Yw, jck, MatchW; (w) ≠ MIL -> MatchW; (w),, MatchWk (w) != NIL
E) Hi m 1.1111 - Maxw (m. w) & Invites	list l
the m s.t. (m, w) & Tent (or NIL if	no such m) wis matched with most preferred machinist who
	has sent an invitation to w
A Manual of Lands and marks	
g) $\forall m, w, w'$ if $(m, w) \in Invites$ and m prefers then $(m, w') \in I$ h) Tent $\subseteq Invites$	notes in order of preference
Termination: when k=n2, Invites = n2 and Invites = MxW so Vw Im s.t. (m,w) + Invi	INV L
and Invites = MXW	b 6
and Yw, w & FreeW	INV L
: Vm, m & Free M	INV c
Postcondition: Tent is a perfect matching Tent is stable	taut a
PENT IS STUBLE	INV C

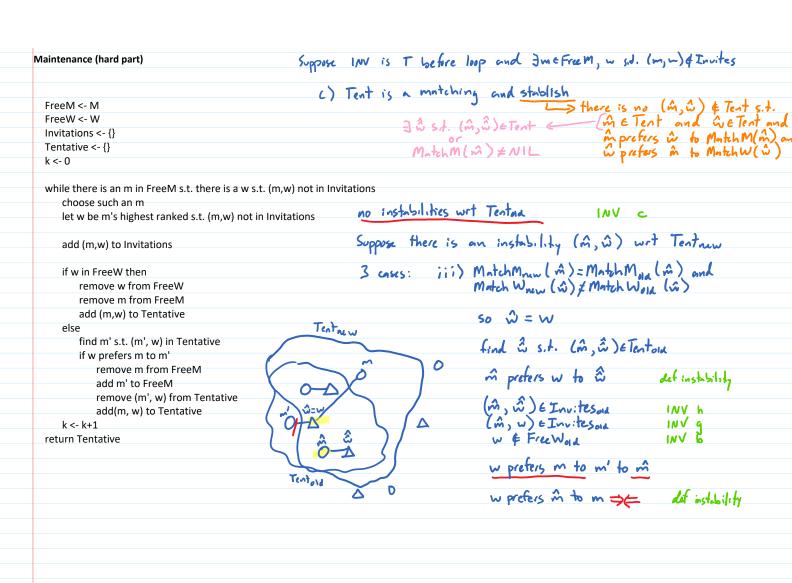


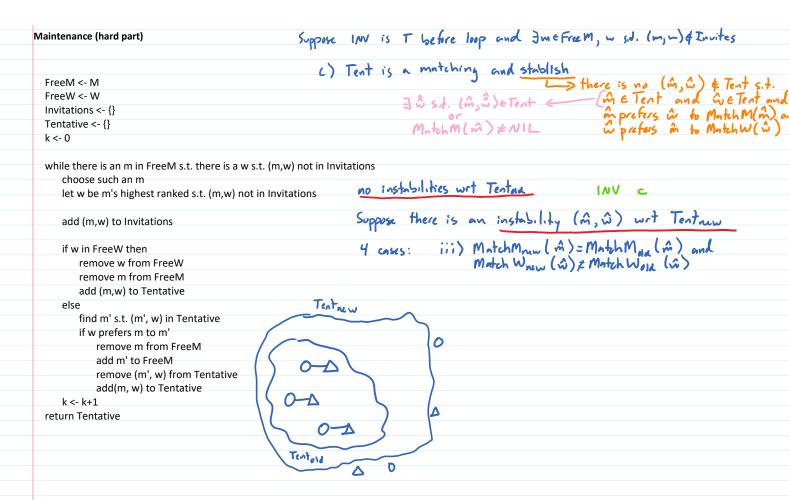


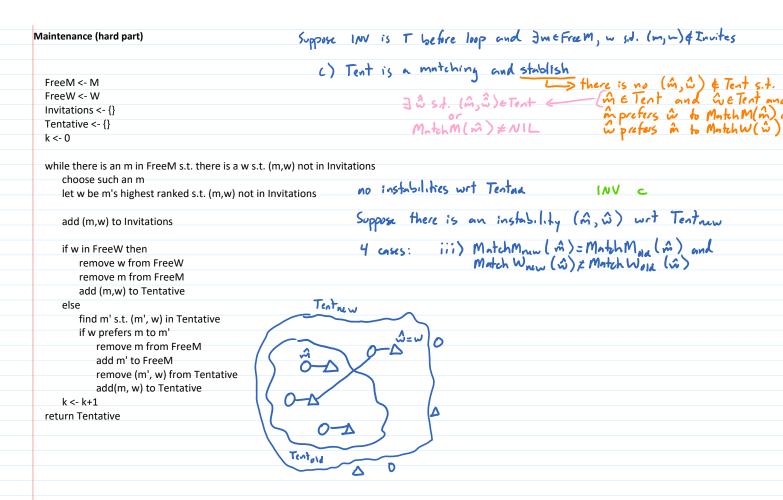


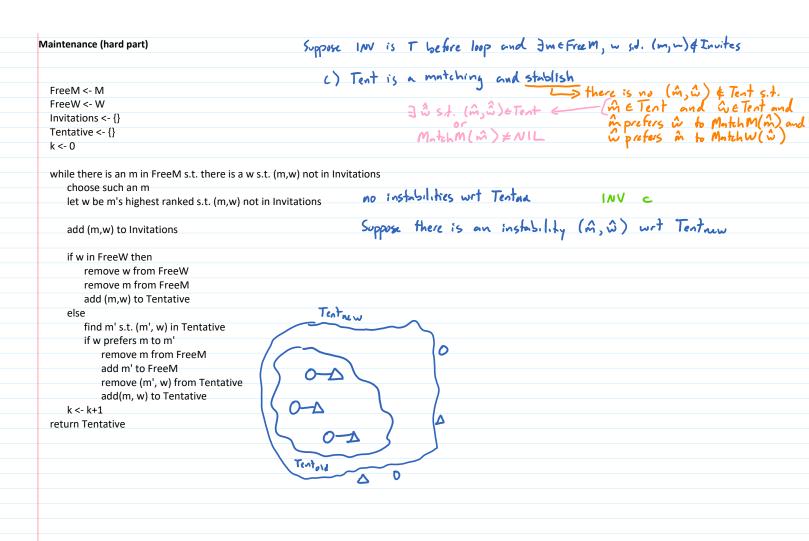












Invariant		
b) Yw, we FreeW ←→ ~3m s.t. (m,w)e	In vites free welders are exactly those with no received invitations	
c) Tent is a matching and stubleish, stuble when ignoring unmatched machinists, welder d) Invites = k		
so Vw ∃m s.t. (m, w) t I.		
and Yw, w & FreeW : Ym, m & Free M	INV L	
Detail han: Test is a sefect mestelouse		
Postcondition: Tent is a perfect matching Tent is stable	INV C	