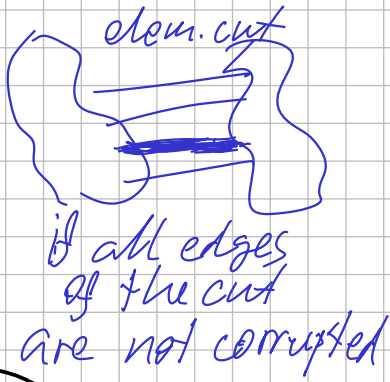
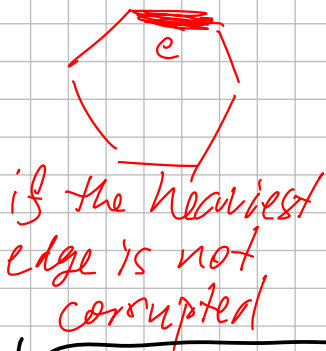


When e is corrupted: $w(e)$ increases

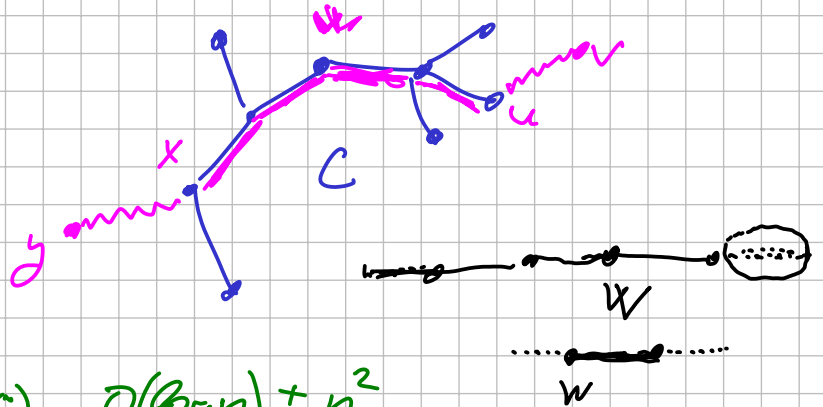
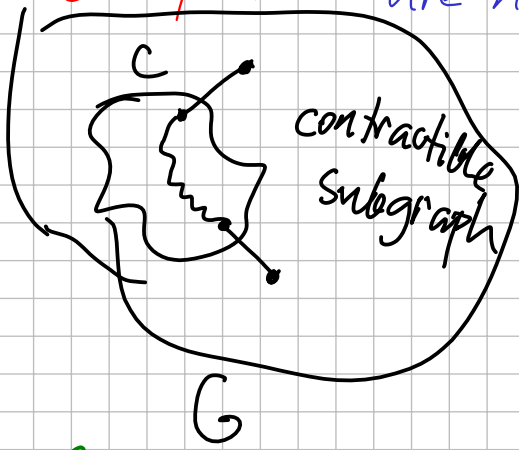
Red Lemma:

Blue Lemma:

Contraction Lemma



if $C \subseteq \text{MST}(G)$
then
 $\text{MST}(G) = C \cup \text{MST}(G/C)$

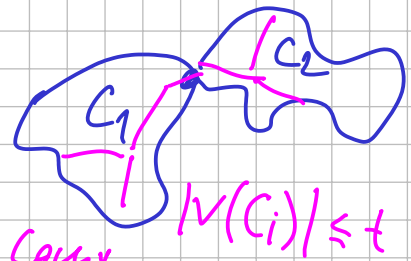
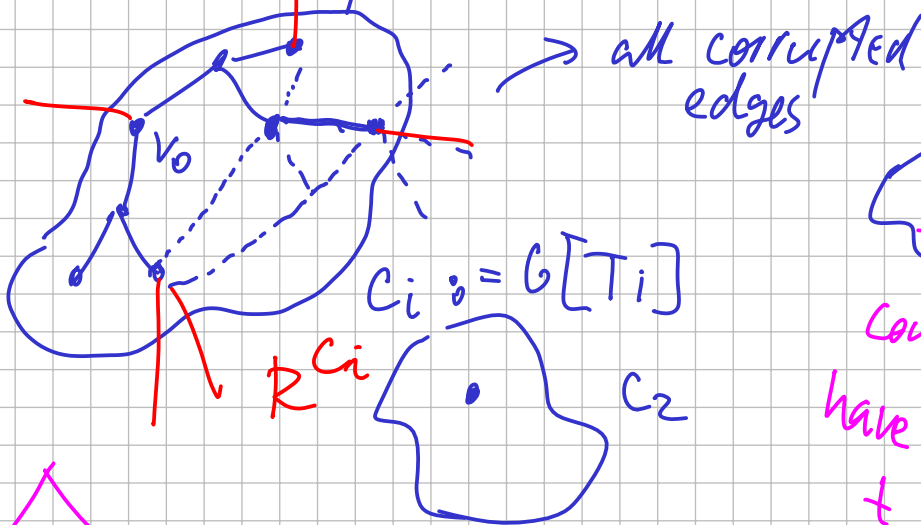


$R \subseteq E(G)$ $O(\log n) + n^2$
 $G \uparrow R$
 $R^C := R \cap \delta(C)$

$\text{MST}(G) \subseteq E(G)$

$$\text{MST}(C) \cup \text{MST}(G/C \setminus R^C) \cup R^C$$

$t := \text{limit on heap size, } \epsilon \in (0, 1/2]$



Comp. $\cup C_i$
have at least t vertices

