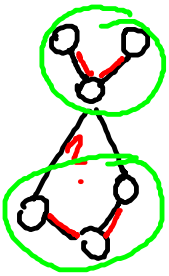
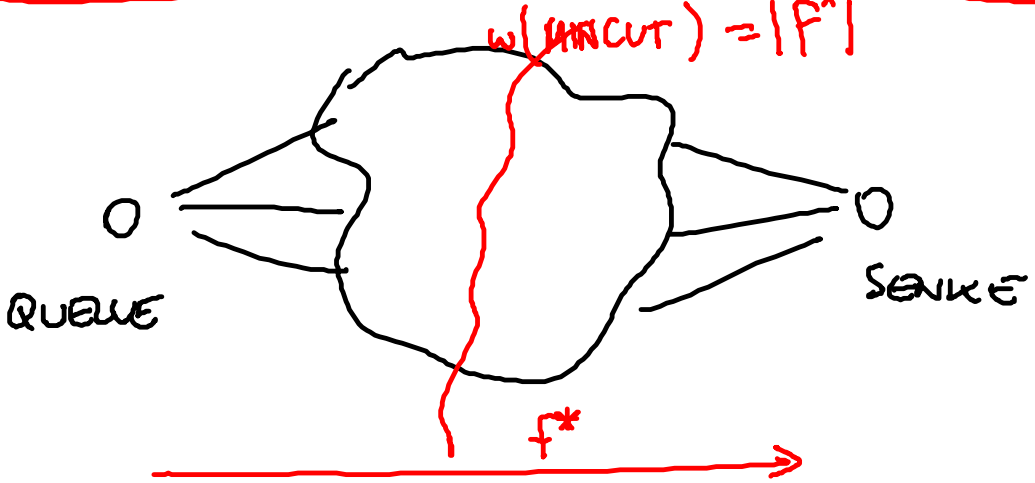
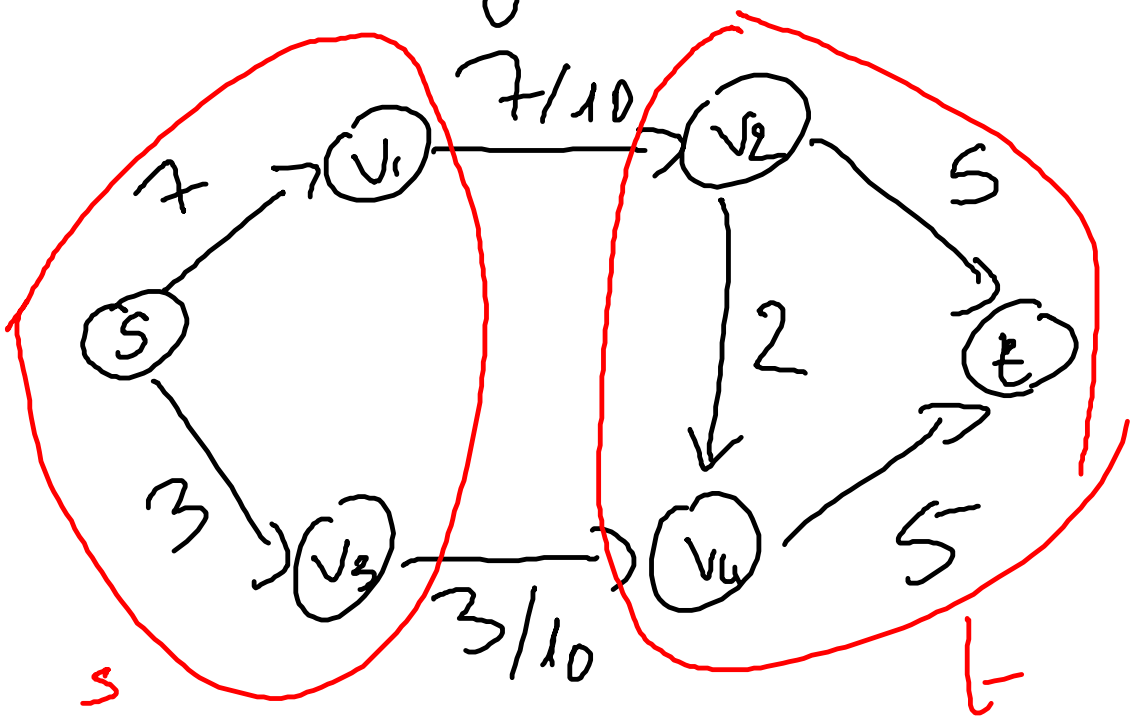
- BESUCHTE KNOTEN MARKIEREN (?)



THEOREM : $w(\text{MIN-CUT}) = \text{MAX-FLOW}$

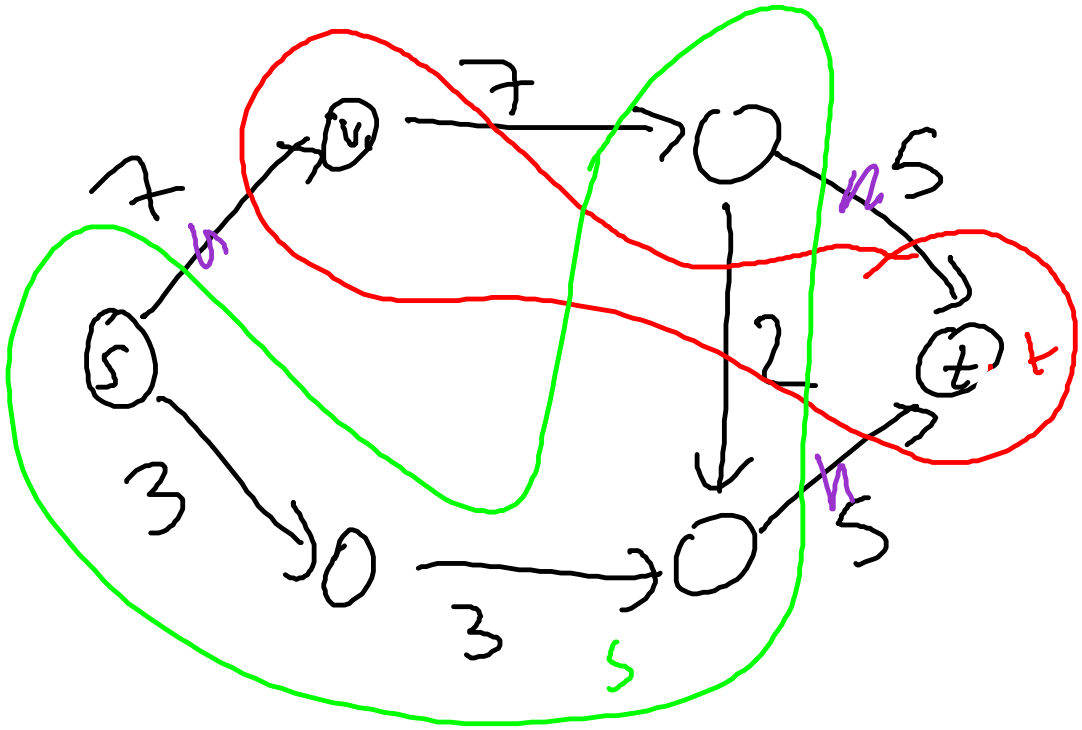


23.06.2017 AlgoDat

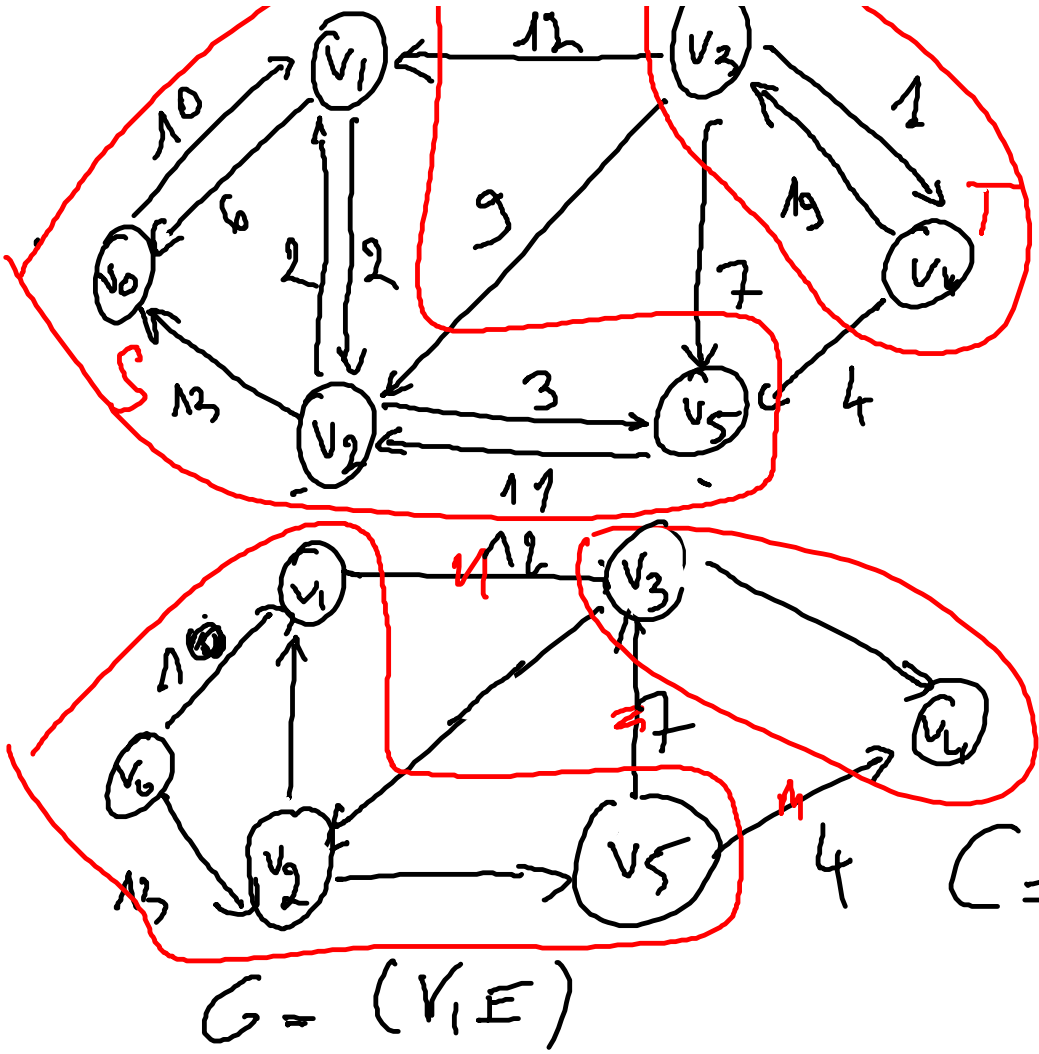


$f(s) = 7 + 3 = 10$

$c(s) = 20$



$h(s) = 17$

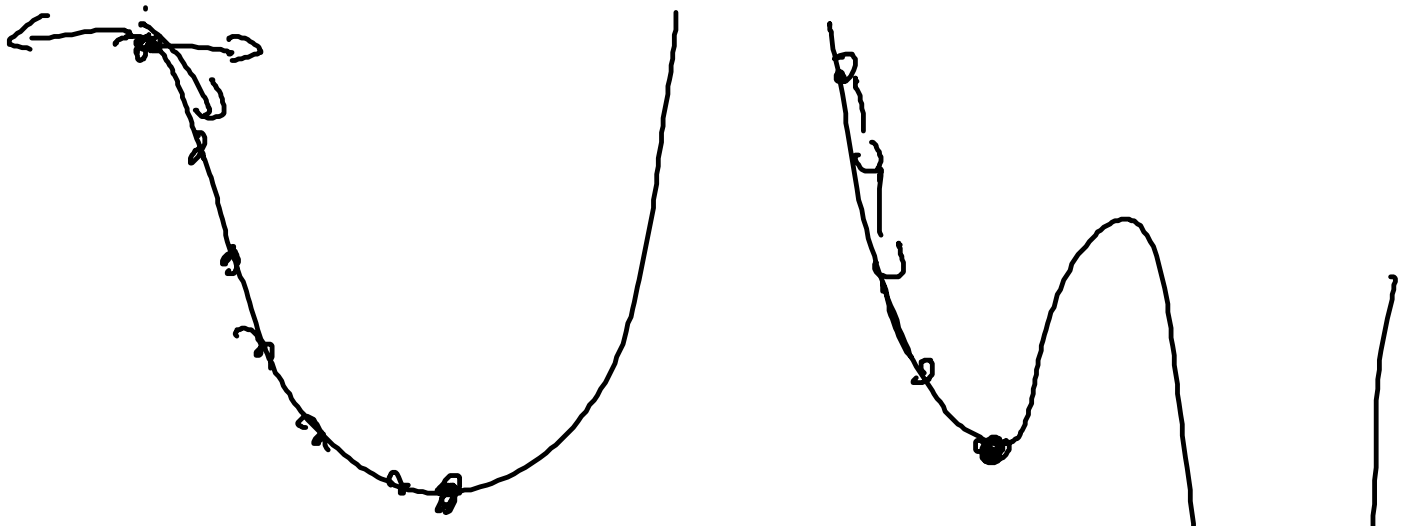


$S = \{v_1, v_0, v_2, v_5\}$

$T = \{v_3, v_4\}$

$C = \{(v_1, v_3), (v_5, v_3), (v_5, v_4)\}$

$G = (V, E)$



v_i Wert

w_i Gewicht

$\max \sum x_i v_i$

Ware 1 und 2

$x_1 = 1, x_2 = 1, x_3 = 0$

160 €

$\sum x_i w_i \leq W = 5kg$

$3kg \leq 5kg$

	Wertvoll v_i/w_i
1 kg / 60 €	60
2 kg / 100 €	50
3 kg / 120	40

Richtig

2 kg / 80 €
2 kg / 100
1 kg / 60 €

Falsch:

2 kg / 100 €
3 kg / 120 €

: 220 €

└ 240 € optimal

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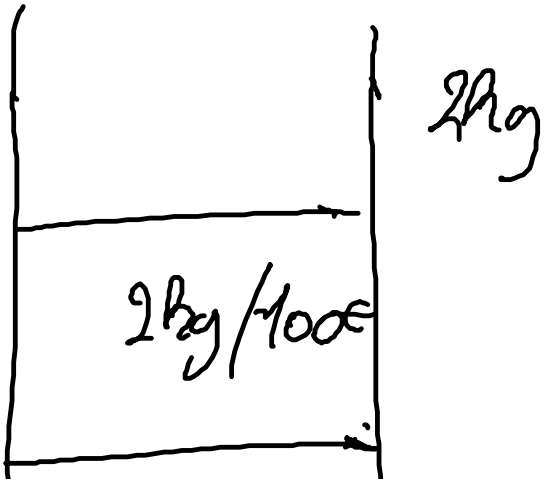
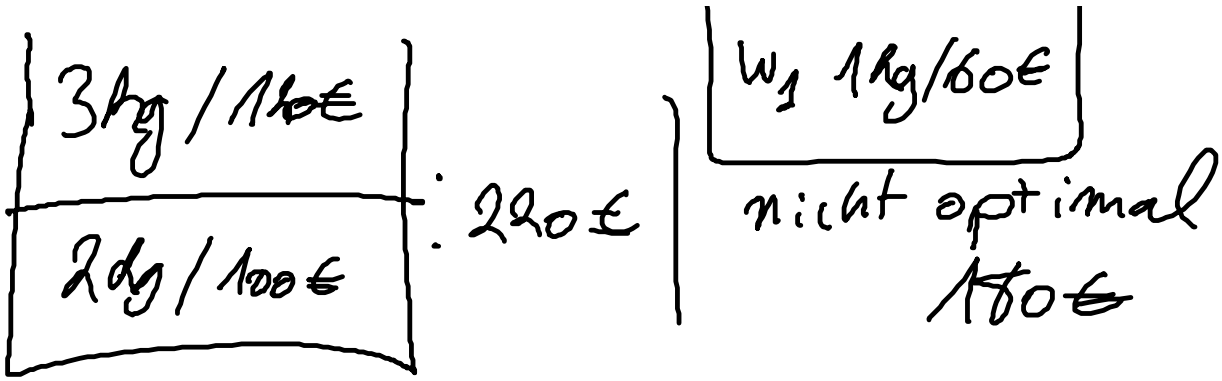
1 kg / 60 €	60
2 kg / 100 €	50
3 kg / 120 €	40




3kg / 150€
2kg / 100€
: 220€
W1 1kg/60€
nicht optimal
150€