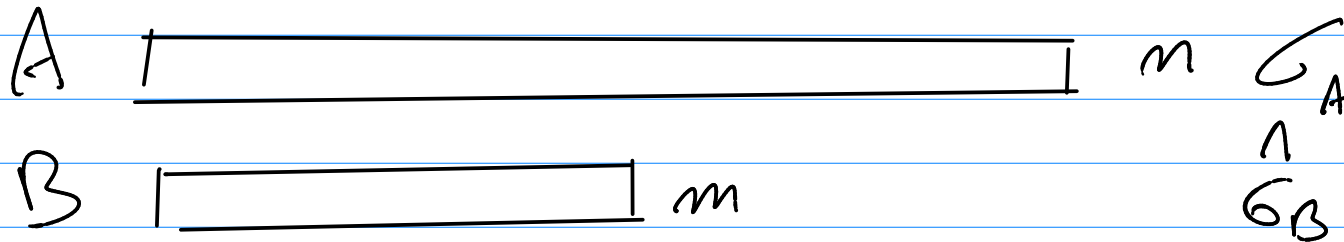


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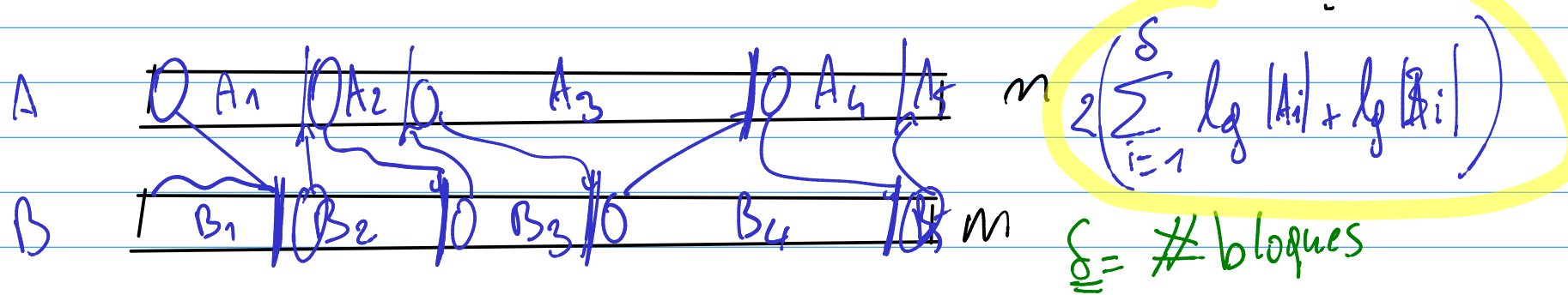
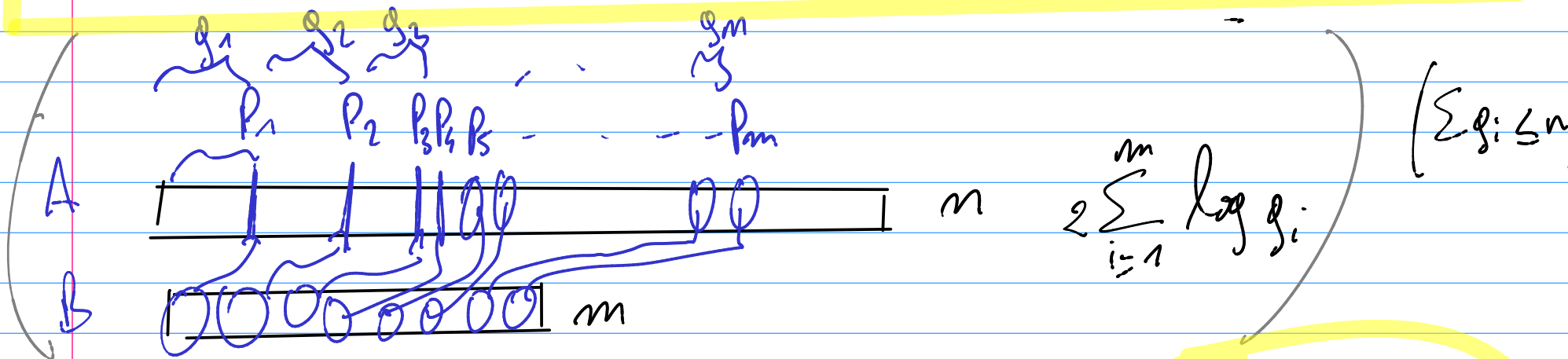
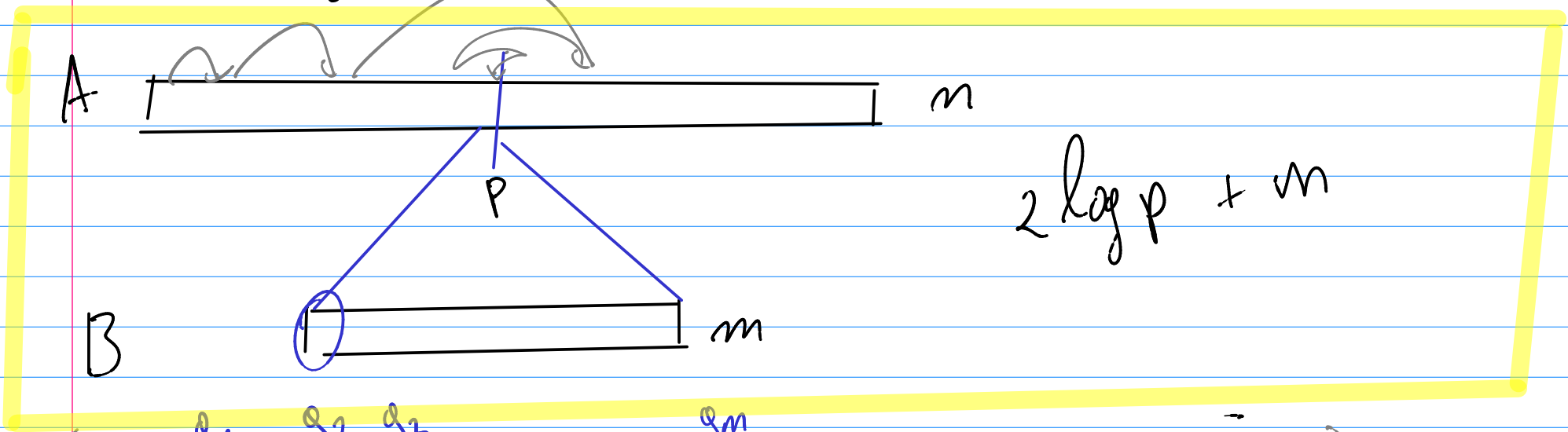
Refining Worst Case Analysis

Binary Merging

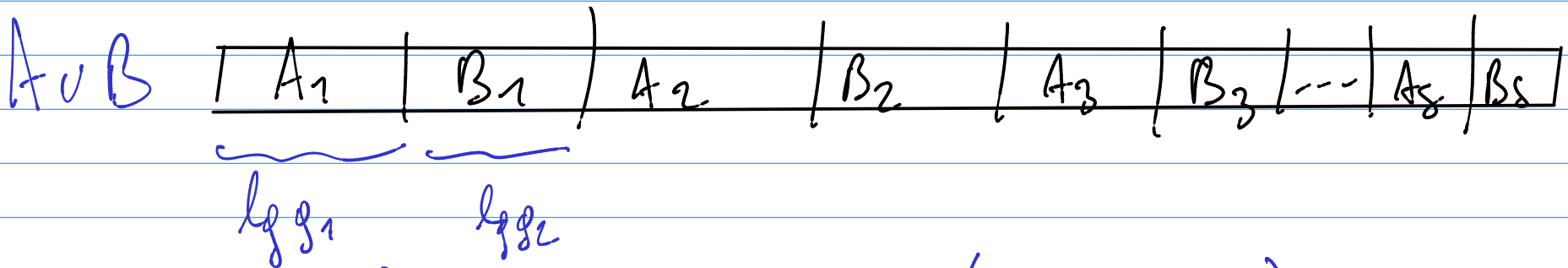
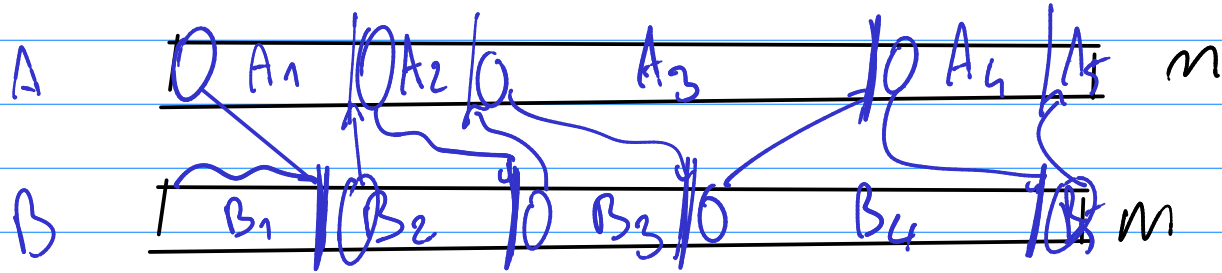


- [CC3001] peor caso por  $n+m$  fijado  $n+m$
- [WangLin] peor caso por  $n, m$  fijado  $O(m \lg \frac{n}{m})$
- [Doubling Search] peor caso por  $n, m, s$  fijado  $O(s (\lg \frac{n}{s} + \lg \frac{m}{s}))$
- [Certificado] peor caso por  $n, m, C$  fijado  $O(\sum_{i=1}^C \lg s_i)$
- [Instance Optimality] peor caso por  $I$  fijado  $O(\min_A C(A, I))$

# Doubling Search part Binary Merging



# Certificado



$$\Omega\left(\sum_{i=1}^s lgg_i\right) \equiv O\left(\sum lgg_i\right)$$