Reitation n° 3: Birrary Scorch

02/17/19

Recarl & p1> ... > pm => S*= 11, ..., R} for some le Ed1...n! S* E aug man $\sum_{j \in S} p_j - \frac{v_j}{1 + \sum_{i \in S} v_i}$ vj= e ", ", = BTxj. € We might just enumerate all sets

115, 11,25,.., 11,2,..., ns. This is on comportiseus. We can do O (log (m))

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with binary search. (quick example:

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Binary search & We want z* = min z $(2) \quad \exists \quad \sum_{j \in S} (p_j - \overline{z}) \cdot v_j$

WS 541...n 8.

We know: Z* < P1 = Z be cour Z 1 satisfies (1) z = 0 < z* be cour 0 does not satisfy (4).

Candidate:
$$z^* = z^{u_3} + z^{u_3}$$
.

So if we shart precision E :

$$z^{u_3} = \beta_4, \quad z^{u_3} = 0$$

while $(1z^{u_3} - z^{u_3}) > E$.

$$Extinates the length of $(z^{u_3} - z^{u_3}) > E$.

We dinde the length of $(z^{u_3} - z^{u_3}) > E$.

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First: $(z^{u_3} + z^{u_3}) > E$.

We dinde the length of $(z^{u_3} - z^{u_3}) > E$.

Fight on $(z^{u_3} - z^{u_3}) > E$.

$$(z^{u_3} + z^{u_3}) > E$$

$$(z^{u_3}$$$$