Convex Hull

Divide-and-conquer (2)
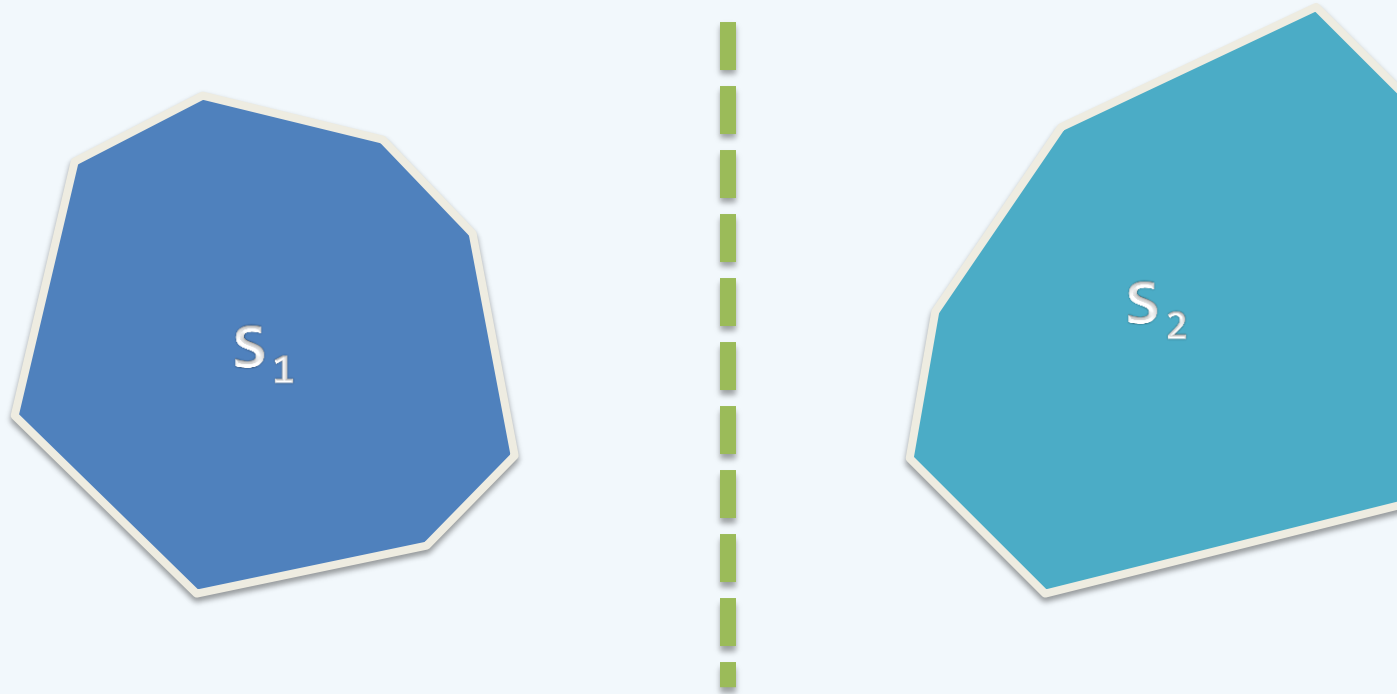
- Preprocessing

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❖ Two sets in the plane are horizontally $\boxed{\text{separable}}$ if ...

they lie resp. in the 2 (open) halfplanes defined by a vertical line

❖ **If we do an $\boxed{\texttt{x-sorting}}$ before DAC ...**

every pair of subhulls to be merged should be horizontally separable

$CH(P_1)$

$CH(P_2)$
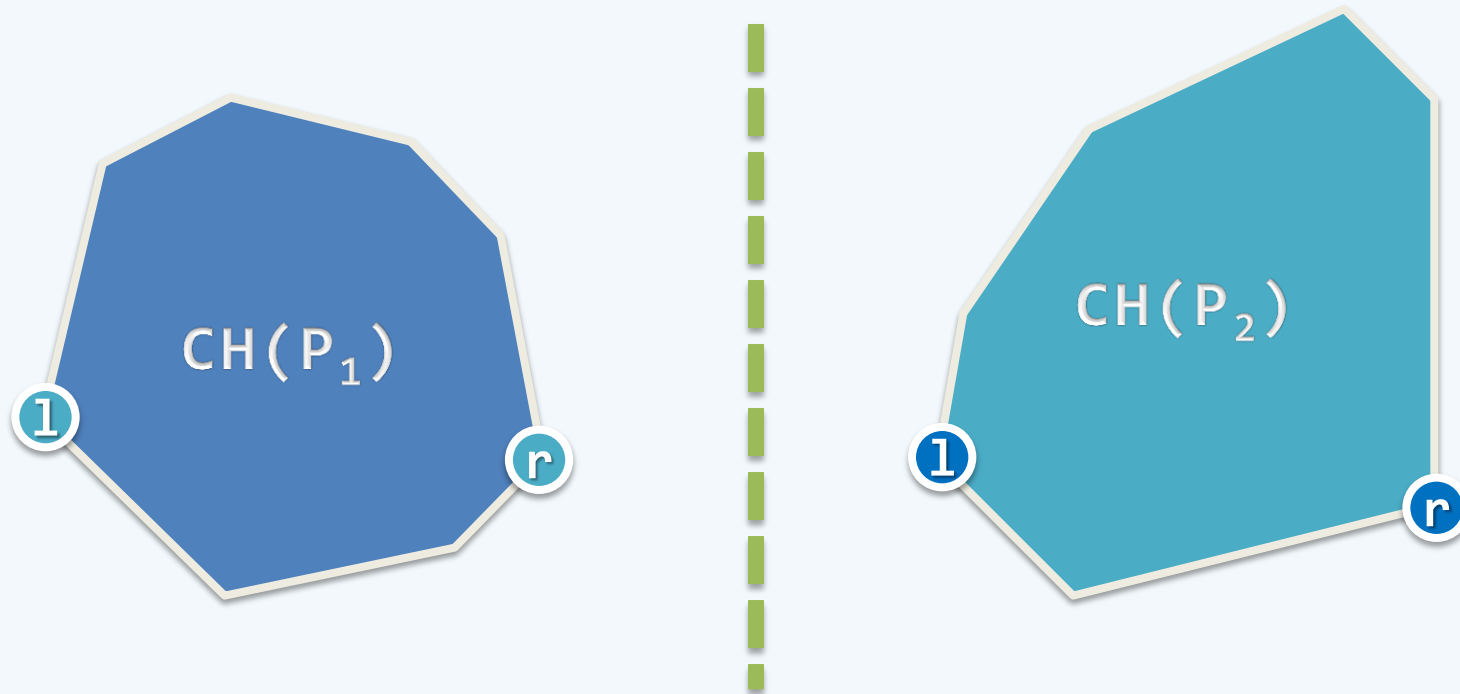
❖ **The $\boxed{\texttt{r}}$ightmost/$\boxed{\texttt{l}}$eftmost vertex of the L/R-subhull**

lies to the left/right of the R/L-subhull