(X1,41) (X2,42) (X3,48) (X4,44) for (XI, yi), We want to find $a(\chi_j, y_j)$ s.t. max $y_j + y_i + \chi_j - \chi_j$ because (Xi, Ji) is fixed Org Max Jitgit xi-xi ignore = argmax y; +x;

In the deque: we store (); +x;, x;)

We can also solve this by fixing j i.e.

(X1, y,) (X2, y2) ---

For a fixed j, find

Max y tyrt xj-xi

because y, tx; is fixed, and
We don't want to put it into the
data structure (it will force us
to recompute y; tyitx; -xi
ever time

We only consider max $y_i - \chi_i$ By this when we move j to the right.

we don't have to recompute again!