→ RPS → CHANGING OBJECTIVE FUNCTION

NEED $\| p_F - p_T \|_1$

↳ MANHATTAN NORM OF VECTOR FROM FINAL STATE TO TARGET STATE.

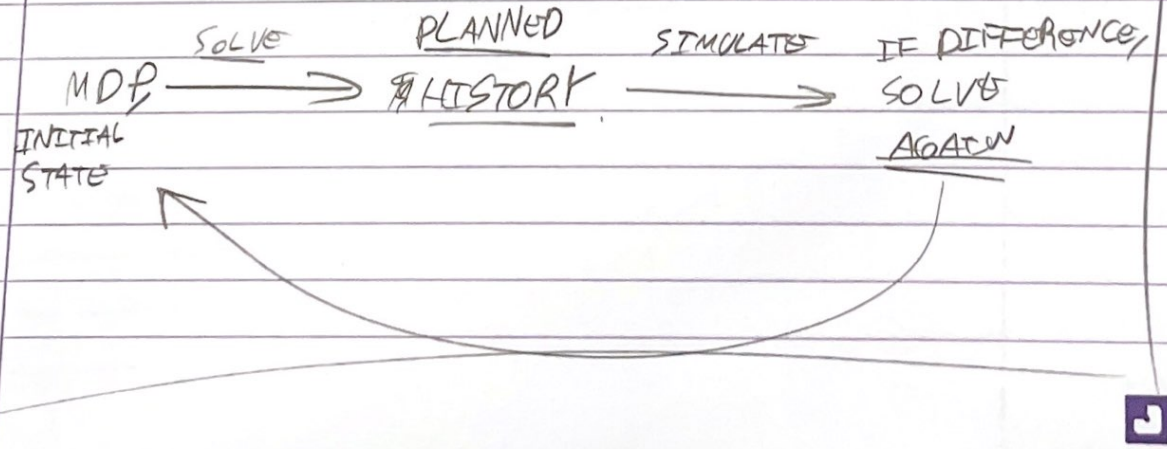
$\overrightarrow{(p_F - p_T)} = [\ \ ]$ 2-ELEMENT VECTOR

DEFINE $\underline{s}$, $\underline{r}$, 2-ELEMENT VECTORS.

$\underline{s} \geq 0$, $\underline{r} \leq 0$, $\underline{x} = \underline{s} + \underline{r}$

$\overrightarrow{(p_F - p_T)} = \underline{s} + \underline{r}$.

MINIMISE $(\underline{s} - \underline{r})$



IN MDP FORMULATION, 1ST ACTION CAN "OVERRIDE" INITIAL VELOCITY

E.G., IF INITIAL HEADING = 2 AND 1ST ACTION = 2, WILL HAVE, IN THE 1ST TIME STEP: