

NAO PLANNING CHALLENGE 2022

FIRENZEREGGIO_TEAM:

- FOLLONI ALESSANDRO
- MASSA LORENZO

DANCE COREOGRAPHY

- Song: Redefinition by Danish dance-pop duo Infernal



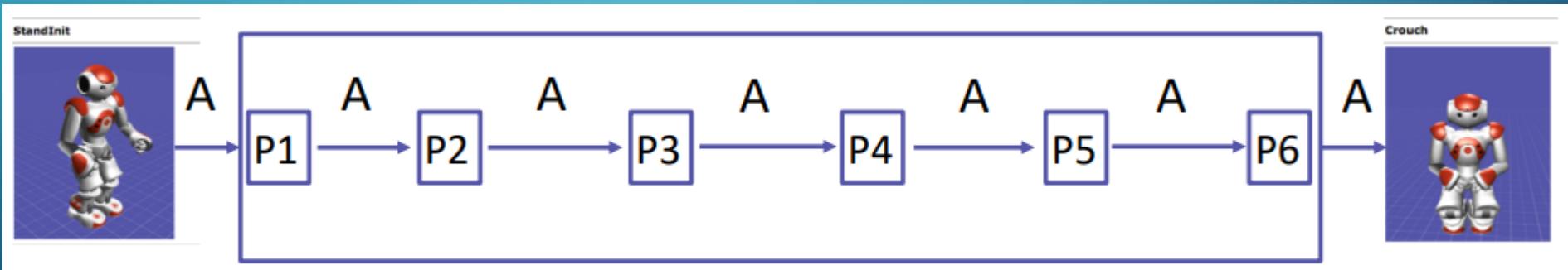
IMPLEMENTATION

- Coded entirely in Python
- Time constraint: max 180 seconds of dance moves
- Actions' duration has been measured and inserted inside the code



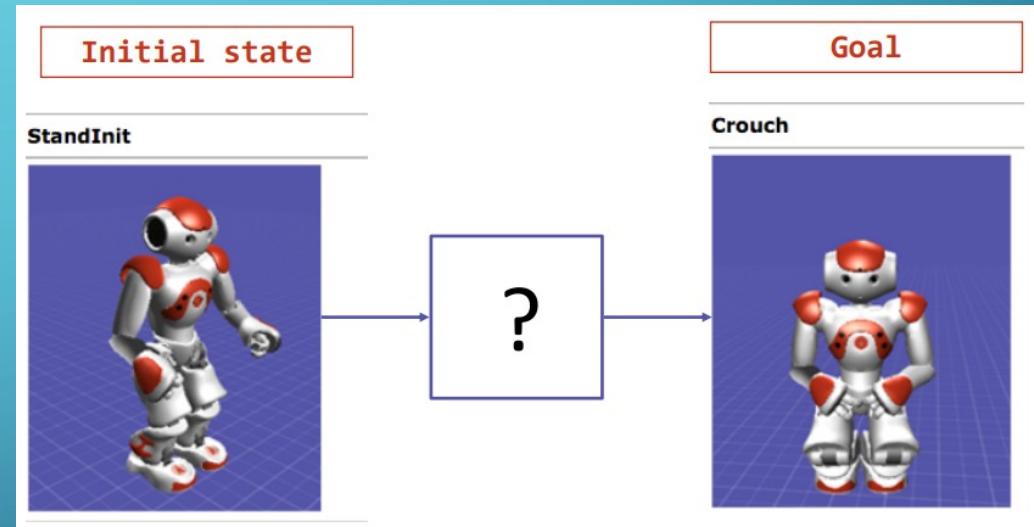
IMPLEMENTATION

- 6 mandatory positions and at least 5 of the mandatory ones must be used
- Moves: between mandatory positions, it selects some of the intermediate ones
- Consecutive moves must be compatible → check preconditions



ALGORITHM

- Search algorithm: Iterative deepening search, through AIMA Library
- It builds a solution by iteratively adding moves and their respective time checking the constraints
- Additional constraint: same move is not repeated one time after the other



Repo: https://github.com/lorenzo-massa/FirenzeReggio_Team



THANKS FOR THE ATTENTION!
LET'S SEE THE DEMO