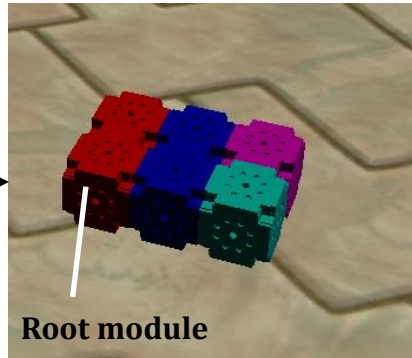
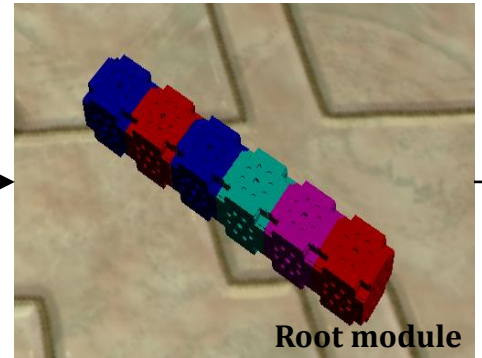


Autonomous Reconfiguration of Heterogenous Robots

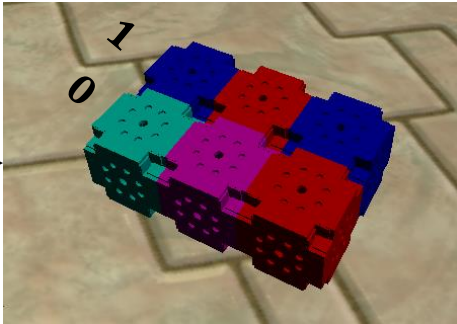
Grouping



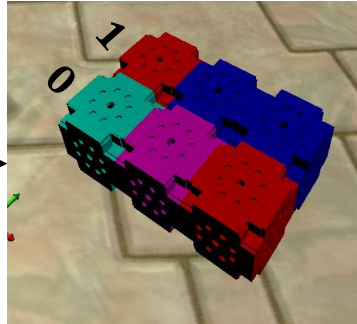
Melt



Split in 2



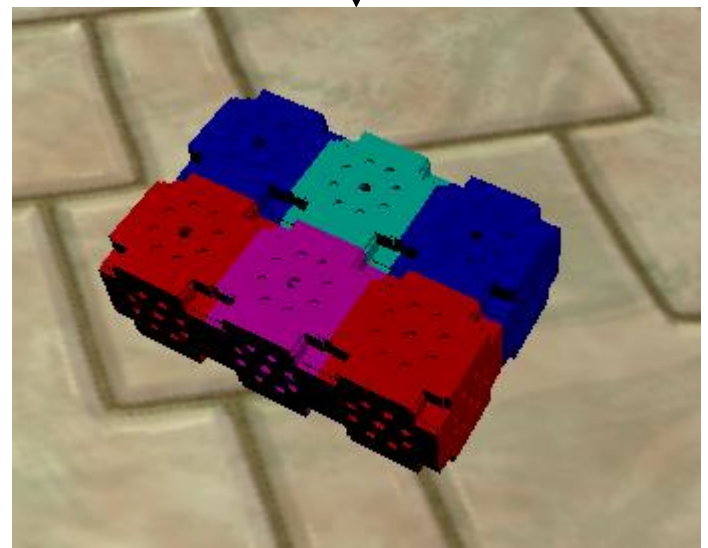
Bubble Sort



Insertion Sort



Grow



Modules treated as nodes in graph

A root module is chosen

BFS is used to find **isolated modules** in the structure and the path to them from root

Path is converted into a series of coordinates outside the structure

Chain is sorted by splitting in 2, bubble sorting each row, then insertion sorting the rows back together

Grow the takes sorted chain into goal structure, performing the inverse of melt

Preserves module orientation

Could be adapted to work with different sized modules