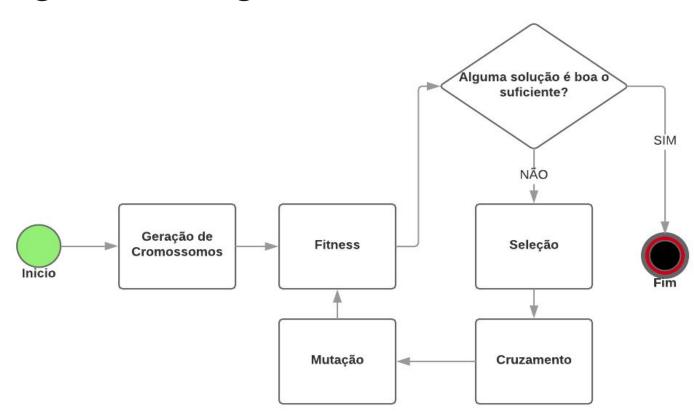
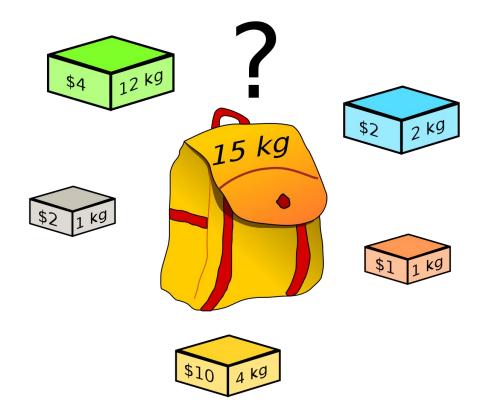
Métodos de Aproximação: Algoritmo Genético

Alunos: Renan Cunha e João Almeida

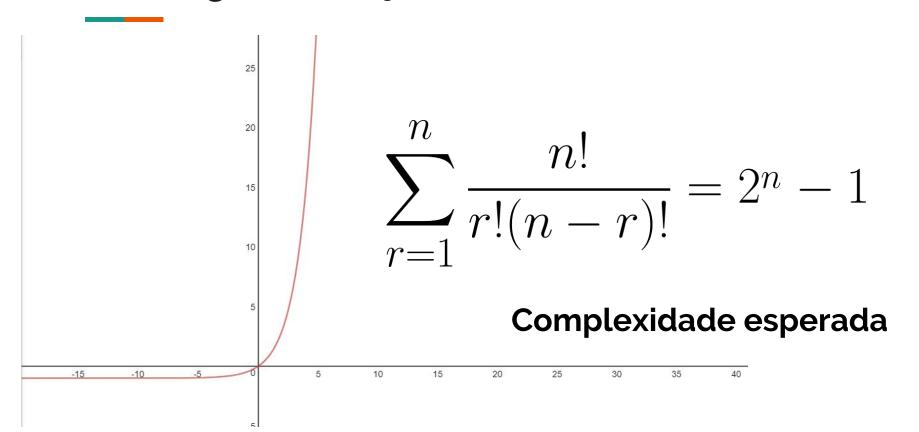
Fluxograma do Algoritmo



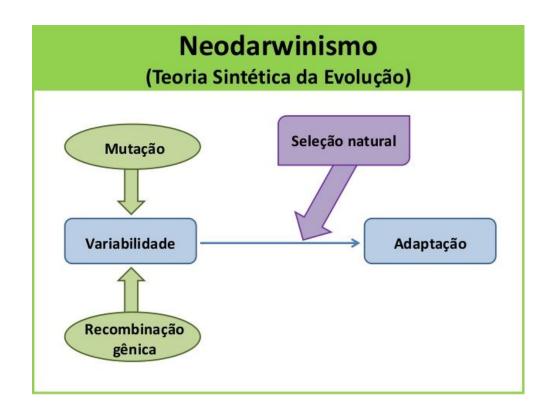
Problema da Mochila



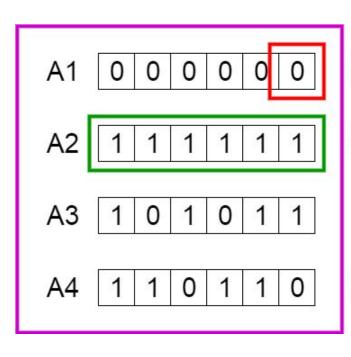
Abordagem 1: Força bruta



Inspiração para o algoritmo



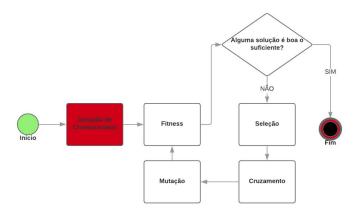
Geração de Cromossomos



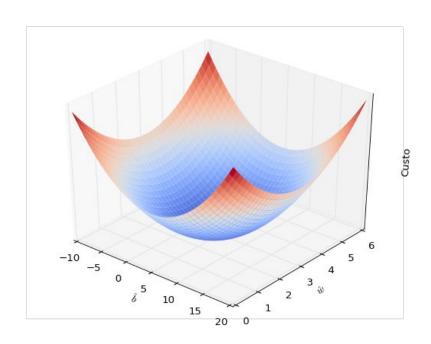
Gene

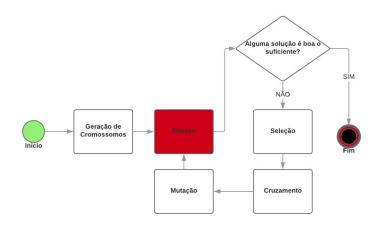
Chromosome

Population

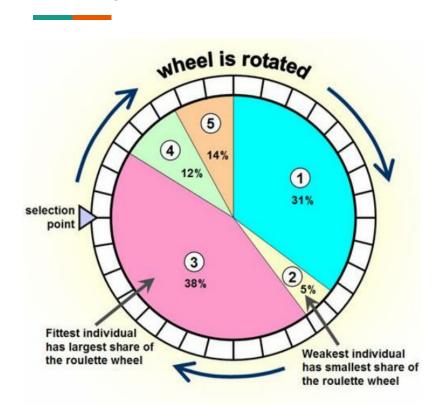


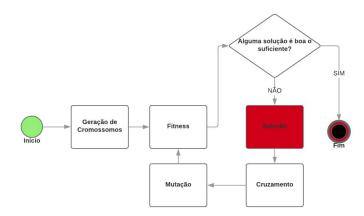
Fitness



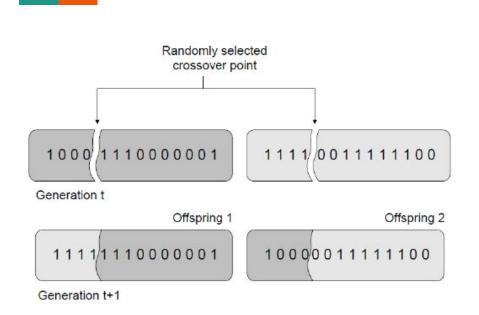


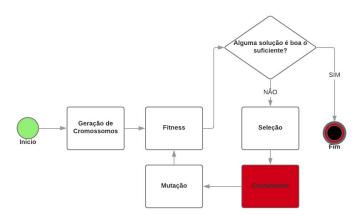
Seleção





Cruzamento





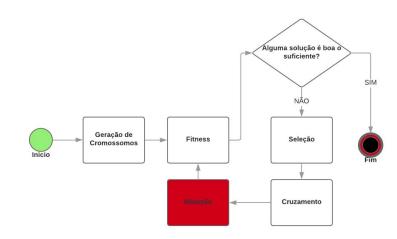
Mutação



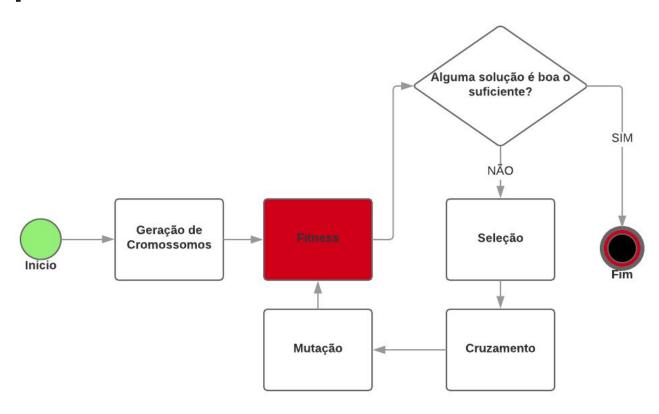
A5 1 1 1 0 0 0

After Mutation

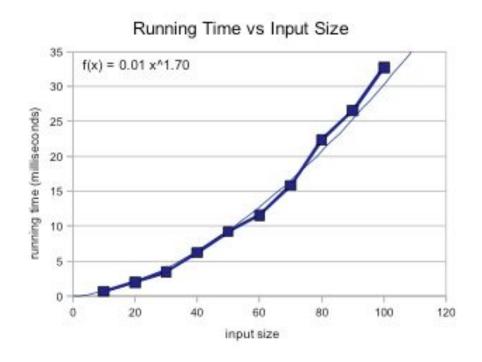
A5 1 1 0 1 1 0



Loop



Complexidade por Algoritmo genético



$$O(n^2)$$

Demonstração

