

Laboratorio #1

1.) DFS (desinformado)

LIFO

Cola = [warm-up]

se agregan hijos ↓

Cola = [step mill, treadmill, ExBike, skipping rope]

expandimos stepmill ↓

Cola = [incline bench, treadmill, ExBike, skipping rope] visitados = [warm-up, step mill]

expandimos incline bench ↓

Cola = [Hammer strength, treadmill, ExBike, skipping rope] visitados = [warm-up, step mill, incline bench]

expandimos Hammer strength ↓

Cola = [stretching, treadmill, ExBike, skipping rope] visitados = [warm-up, step mill, incline bench]

∴ Objetivo alcanzado

✓ Ruta encontrada = [warm-up, step mill, incline bench, hammer strength, stretching], costo total = 54

2.) Greedy Best-First Search (informado)

Priority (heurística)

Cola = [warm-up(5)]

Prioridad
 $h(n)=5$ ↓

Cola = [ExBike(10), treadmill(12), step mill(14), skipping rope(16)] visitados = [warm-up(5)]

Prioridad
 $h(n)=10$ ↓

Cola = [cabel crossover(8), treadmill(12), step mill(14), skipping rope(16)] visitados = [warm-up(5), ExBike(10)]

Prioridad
 $h(n)=8$ ↓

Cola = [climbing rope (5), treadmill (12), stepmill (14), skipping rope (16)] visitados = [warm-up (5), ExBike (10), labelcrossover (8)]
Prioridad
 $h(n)=5$ ↓

Cola = [stretching (0), treadmill (12), stepmill (14), skipping rope (16)] visitados = [warm-up (5), ExBike (10), labelcrossover (8), climbing rope (5)]

∴ Objetivo alcanzado

✓ Ruta encontrada = [warm-up, ExBike, labelcrossover, climbing rope, stretching], costo total = 55

