Example: Problem 3

1. Change the Number of Burger Order while Drink Order remain constant

Burger Order = 5

Drink Order = 2

; States evaluated: 3137

; Cost: 53.019

; Time 6.71

Burger Order = 6

Drink Order = 2

; States evaluated: 3176

; Cost: 54.019

; Time 6.65

Burger Order = 7

Drink Order = 2

; States evaluated: 4686

; Cost: 72.026

; Time 11.20

Burger Order = 8

Drink Order = 2

; States evaluated: 4770

; Cost: 72.027

; Time 11.40

Burger Order = 9

Drink Order = 2

; States evaluated: 6306

; Cost: 90.033

; Time 16.98

Burger Order = 10

Drink Order = 2

; States evaluated: 6354

; Cost: 91.033

; Time 17.45

1. Change the Number of Drink Order while Burger Order remain constant

Burger Order = 5

Drink Order = 3

; States evaluated: 3229

; Cost: 54.020

; Time 7.01

Burger Order = 5

Drink Order = 4

; States evaluated: 3225

; Cost: 57.023

; Time 7.31

Burger Order = 5

Drink Order = 5

; States evaluated: 3088

; Cost: 56.022

; Time 6.89

Burger Order = 5

Drink Order = 6

; States evaluated: 3223

; Cost: 57.023

; Time 7.31

Burger Order = 5

Drink Order = 7

; States evaluated: 3215

; Cost: 58.024

; Time 7.34

1. Jumbo Number Testing (Close to real world problem)

Burger Order = 20

Drink Order = 14

; States evaluated: 14337

; Cost: 191.072

; Time 76.96

Burger Order = 21

Drink Order = 15

; States evaluated: 15625

; Cost: 209.078

; Time 91.95

Burger Order = 22

Drink Order = 16

; States evaluated: 15647

; Cost: 210.077

; Time 92.18