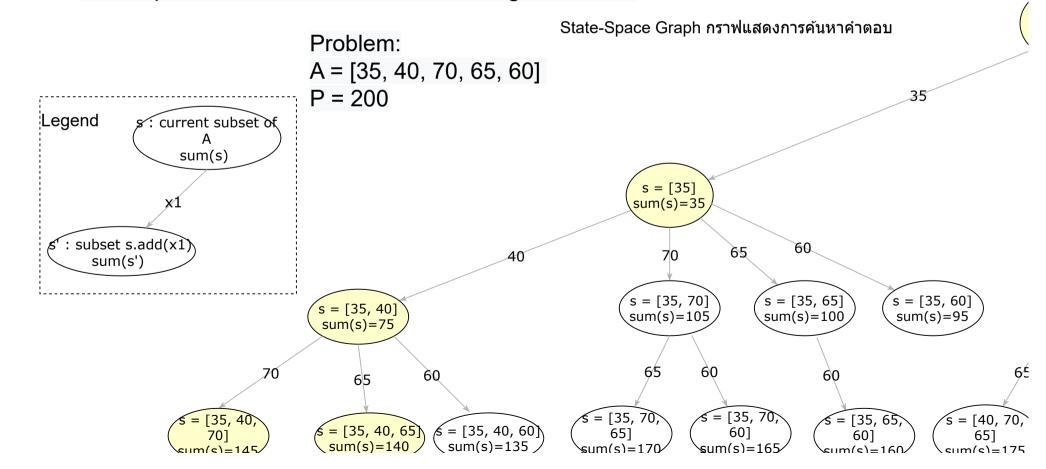
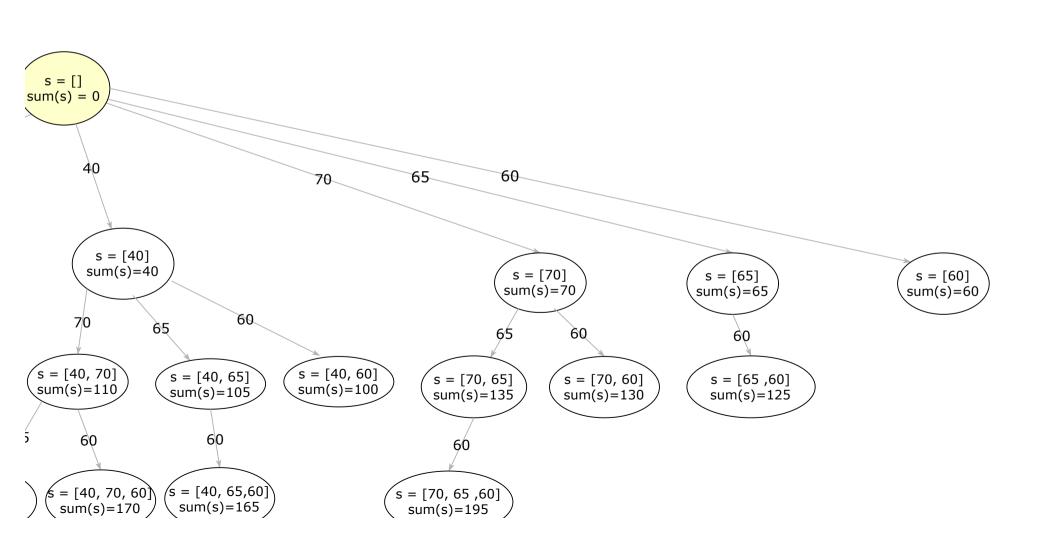
Example

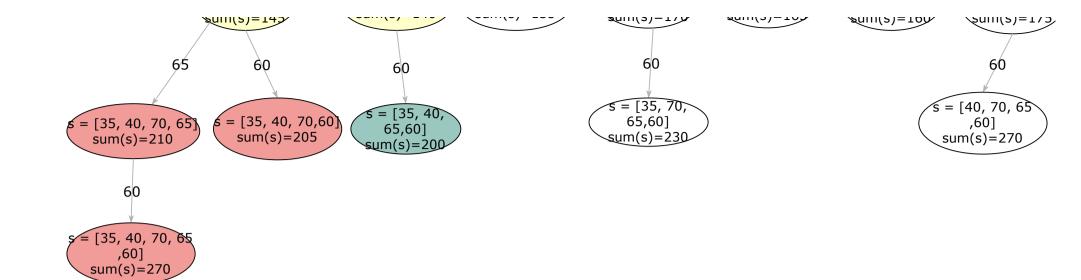
(Sum of Subset Problem)

นาย สักก์ธนัชญ์ ประดิษฐอุกฤษฎ์ 6710110432

State-Space Search Method: Enumerating all subsets







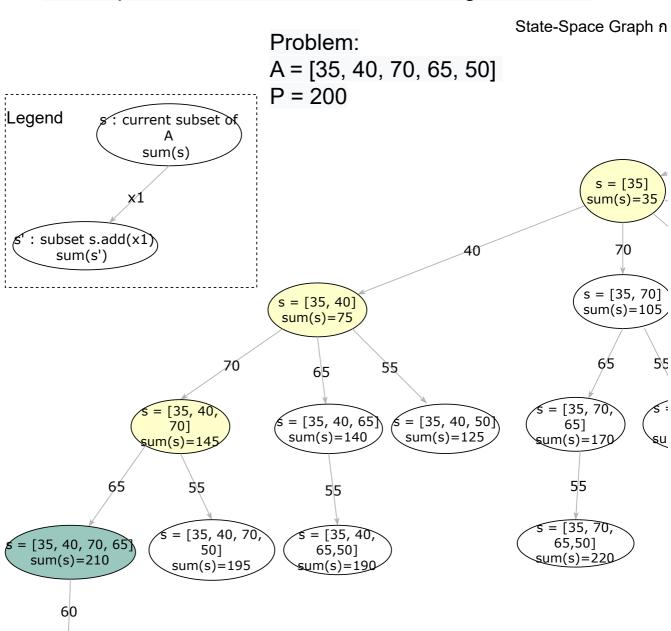
```
Problem:
 A = [35, 40, 70, 65, 60]
 P = 200
 ลำดับของการค้นหา
 วิธีการ Depth-First Search
 (pre-order processing: node-left-right)
 1:[]
            sum = 0
 2: [35]
             sum = 35
 3: [35, 40]
               sum = 75
4: [35, 40, 70] sum = 145
 5: [35, 40, 70, 65] sum = 210
 6: [35, 40, 70, 65, 60] sum = 270
 7: [35, 40, 70, 60] sum = 205
8: [35, 40, 65] sum = 140
9: [35, 40, 65, 60] sum = 200
จำนวนโหนดทั้งหมดที่ค้น = 9 โหนด
```

Example

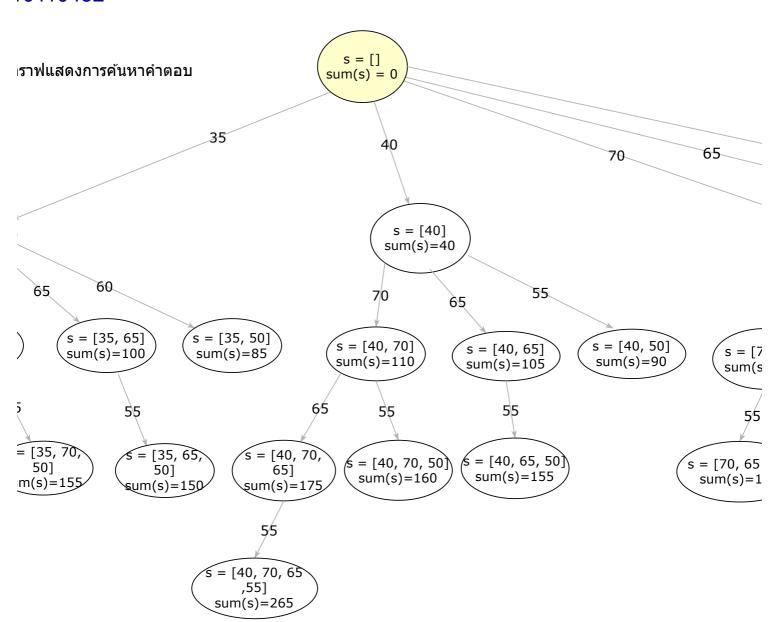
= [35, 40, 70, 65 ,50] sum(s)=265 (Sum of Subset Problem)

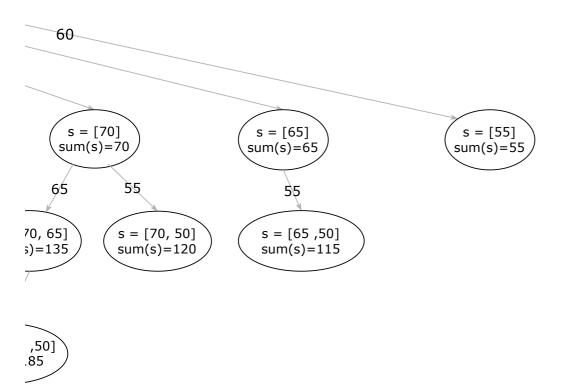
นาย 671

## State-Space Search Method: Enumerating all subsets



## ้ ม สักก์ธนัชญ์ ประดิษฐอุกฤษฎ์ 10110432





## Problem:

A = [35, 40, 70, 65, 55] P = 200

ลำดับของการคันหา วิธีการ Depth-First Search (pre-order processing: node-left-right)

**↑** |

- 1. [] (sum = 0)
- 2. [35] (sum = 35)
- 3. [35, 40] (sum = 75)
- 4. [35, 40, 70] (sum = 145)
- 5. [35, 40, 70, 65] (sum = 210)
- 6. [35, 40, 70, 65, 55] (sum = 270)
- 7. [35, 40, 70, 55] (sum = 225)
- 8. [35, 40, 65] (sum = 140)
- 9. [35, 40, 65, 55] (sum = 195)
- 10.[35, 40, 55] (sum = 130)
- 11.[35, 70] (sum = 105)
- 12.[35, 70, 65] (sum = 170)
- 13.[35, 70, 65, 55] (sum = 225)
- 14.[35, 70, 55] (sum = 160)
- 15.[35, 65] (sum = 100)
- 16.[35, 65, 55] (sum = 155)
- 17.[35, 55] (sum = 90)
- 18.[40] (sum = 40)
- 19.[40, 70] (sum = 110)
- 20.[40, 70, 65] (sum = 175)
- 21.[40, 70, 65, 55] (sum = 230)
- 22.[40, 70, 55] (sum = 165)
- 23.[40, 65] (sum = 105)
- 24.[40, 65, 55] (sum = 160)
- 25.[40, 55] (sum = 95)
- 26.[70] (sum = 70)
- 27.[70, 65] (sum = 135)
- 28.[70, 65, 55] (sum = 190)
- 29.[70, 55] (sum = 125)
- 30.[65] (sum = 65)
- 31.[65, 55] (sum = 120)
- 32.[55] (sum = 55)

โหนดที่เจอ = โหนดที่ 5