

SUBSET SUM PROBLEM IMPLEMENTATION USING SET

```
In [2]: set1 = { 1, 2, 3, 5, 6, 7 }
        target = 9

def SUBSETSUM( set1, target):
    HashMap = {}
    for i in set1:
        if i in HashMap:
            result.append((HashMap.get(i), i)) #append ( i, complement ) to the result
        else:
            value = target - i
            HashMap[ value ] = i
            print(f"HashMap = { HashMap } ")
            print("-----")

    result = []
    SUBSETSUM( set1, target )
    print(f"Final Result = { result }")
```

```
HashMap = {8: 1}
-----
HashMap = {8: 1, 7: 2}
-----
HashMap = {8: 1, 7: 2, 6: 3}
-----
HashMap = {8: 1, 7: 2, 6: 3, 4: 5}
-----
Final Result = [(3, 6), (2, 7)]
```

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