**Answer:** **(D)**   
  
**Explanation:** Following is the recurrence for given implementation of subset sum problem

T(n) = 2T(n-1) + C1  
T(0) = C1

Where C1 and C2 are some machine specific constants.

The solution of recurrence is O(2^n)

We can see it with the help of recurrence tree method

C1

/ \

T(n-1) T(n-1)

C1

/ \

C1 C1

/ \ / \

T(n-2) T(n-2) T(n-2) T(n-2)

C1

/ \

C1 C1

/ \ / \

C1 C1 C1 C1

/ \ / \ / \ / \

If we sum the above tree level by level, we get the following series

T(n) = C1 + 2C1 + 4C1 + 8C1 + ...

The above series is Geometrical progression and there will be n terms in it.

So T(n) = O(2^n)