PARTITION EQUAL SUBSET SUM

Date : / /

Pick/Non Pick ⇒ Given arr, target.

```
f(ind, target)
{
if (target == 0) return True
if (ind == 0) return (arr[0] == target)
nottake = f(ind-1, target)
take = false
 if (arr[ind] <= target)
      take = f(ind-1, target - arr[ind]);
return take/nontake
```

TABULATION

```
dp[n][target]
for (ind = 0 → n-1) dp[ind][0] = true;
if (arr[0] <= target) dp[0][arr[0]] = true
for(int i = 1 → n-1){
 for (target 1 → k){
    nottake = dp[i-1][target]
      take = false;
    if (arr[i] <= target)
      take = dp[i-1][target - arr[ind]]
dp[i][target] = take/nontake
```

} Base case