HW13

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Consider an instance of subset sum in which w1 = 1, w2 = 4, w3 = 3, w4 = 6 and W = 8. Draw the table of opt(i, w) values computed by dynamic programming.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Weight | | | | | | | | |
|  | Opt(i,w) | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Number of items considered | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 0 | 1 | 1 | 1 | 4 | 5 | 5 | 5 | 5 |
| 3 | 0 | 1 | 1 | 3 | 4 | 5 | 5 | 7 | 8 |
| 4 | 0 | 1 | 1 | 3 | 4 | 5 | 6 | 7 | 8 |