

















| Subset           | Total weight | Total value  |  |
|------------------|--------------|--------------|--|
| {1}              | 2            | \$20         |  |
| {2}              | 5            | \$30         |  |
| {3}              | 10           | \$50         |  |
| {4}              | 5            | \$10         |  |
| $\{1, 2\}$       | 7            | \$50         |  |
| $\{1, 3\}$       | 12           | \$70         |  |
| $\{1, 4\}$       | 7            | \$30         |  |
| $\{2,3\}$        | 15           | \$80         |  |
| $\{2,4\}$        | 10           | \$40         |  |
| $\{3, 4\}$       | 15           | \$60         |  |
| $\{1, 2, 3\}$    | 17           | not feasible |  |
| $\{1, 2, 4\}$    | 12           | \$60         |  |
| $\{1, 3, 4\}$    | 17           | not feasible |  |
| $\{2, 3, 4\}$    | 20           | not feasible |  |
| $\{1, 2, 3, 4\}$ | 22           | not feasible |  |



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| ► Read Chap. 3.                         | ummary  |                                |
|---|---------|--------------------------------|
| Next class: Chap. 4 and Master 1        | heorem. |                                |
|   |         |                                |
|   |         | J                              |
| CS483 Design and Analysis of Algorithms | 45      | Lecture 05, September 11, 2007 |