HW 1 – Budget allocation

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| --- | --- | --- | --- | --- | --- | --- | --- |
|  | I1 | I2 | I3 | I4 | I5 | I6 | I7 |
| Cost | 7 | 5 | 8 | 12 | 9 | 6 | 13 |
| Income | 30 | 26 | 25 | 41 | 36 | 24 | 38 |

1. On which projects should we invest to maximize Profits?
2. If we invest on I4 we should also Invest on I3
3. We can not invest on I1 and I7 at the same time
4. We can invest on maximum 5 projects

Model and solve the problem

1. Add a new constraint and solve to problem again: Maximum budget = 40