

# Discrete Optimization

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## 1 The Assignment Problem

Lecture-2 preparation.

In the following  $6 \times 6$  table select six numbers, one from each row and each column so that the sum of the six numbers is as small as possible.

|     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|
| 125 | 112 | 114 | 216 | 210 | 235 |
| 104 | 235 | 185 | 160 | 210 | 195 |
| 95  | 125 | 200 | 200 | 210 | 235 |
| 155 | 135 | 180 | 175 | 225 | 200 |
| 140 | 235 | 200 | 210 | 220 | 190 |
| 145 | 139 | 160 | 215 | 199 | 210 |