## Matrices

| | | |
|---|---|---|
| A | 200 | 2 |
| B | 2 | 30 |
| C | 30 | 20 |
| D | 20 | 5 |

### Block 1

| | 0 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 12000 | 0 | 0 |
| 2 | 0 | 0 | 0 | 0 | 0 |
| 3 | 0 | 0 | 0 | 0 | 0 |
| 4 | 0 | 0 | 0 | 0 | 0 |

| | | | | |
|---|---|---|---|---|
| Chain size | 2 | (A x B) | | |
| Chain begin | 1 | 0 | (A) | |
| Divide at | 1 | | | |
| Chain end | 2 | 0 | (B) | |
| Cost | 12000 | 200 | 2 | 30 |

### Block 2

| | 0 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 12000 | 0 | 0 |
| 2 | 0 | 0 | 0 | 1200 | 0 |
| 3 | 0 | 0 | 0 | 0 | 0 |
| 4 | 0 | 0 | 0 | 0 | 0 |

| | | | | |
|---|---|---|---|---|
| Chain size | 2 | (B x C) | | |
| Chain begin | 2 | 0 | (B) | |
| Divide at | 2 | | | |
| Chain end | 3 | 0 | (C) | |
| Cost | 1200 | 2 | 30 | 20 |

### Block 3

| | 0 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 12000 | 0 | 0 |
| 2 | 0 | 0 | 0 | 1200 | 0 |
| 3 | 0 | 0 | 0 | 0 | 3000 |
| 4 | 0 | 0 | 0 | 0 | 0 |

| | | | | |
|---|---|---|---|---|
| Chain size | 2 | (C x D) | | |
| Chain begin | 3 | 0 | (C) | |
| Divide at | 3 | | | |
| Chain end | 4 | 0 | (D) | |
| Cost | 3000 | 30 | 20 | 5 |

### Block 4

| | 0 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 12000 | 9200 | 0 |
| 2 | 0 | 0 | 0 | 1200 | 0 |
| 3 | 0 | 0 | 0 | 0 | 3000 |
| 4 | 0 | 0 | 0 | 0 | 0 |

| | | | | |
|---|---|---|---|---|
| Chain size | 3 | (A x (B x C)) | | |
| Chain begin | 1 | 0 | (A) | |
| Divide at | 1 | | | |
| Chain end | 3 | 1200 | (B x C) | |
| Cost | 9200 | 200 | 2 | 20 |

### Block 5

| | 0 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 12000 | 9200 | 0 |
| 2 | 0 | 0 | 0 | 1200 | 0 |
| 3 | 0 | 0 | 0 | 0 | 3000 |
| 4 | 0 | 0 | 0 | 0 | 0 |

| | | | | |
|---|---|---|---|---|
| Chain size | 3 | ((A x B) x C) | | |
| Chain begin | 1 | 12000 | (A x B) | |
| Divide at | 2 | | | |
| Chain end | 3 | 0 | (C) | |
| Cost | 132000 | 200 | 30 | 20 |

### Block 6

| | 0 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 12000 | 9200 | 0 |
| 2 | 0 | 0 | 0 | 1200 | 3300 |
| 3 | 0 | 0 | 0 | 0 | 3000 |
| 4 | 0 | 0 | 0 | 0 | 0 |

| | | | | |
|---|---|---|---|---|
| Chain size | 3 | (B x (C x D)) | | |
| Chain begin | 2 | 0 | (B) | |
| Divide at | 2 | | | |
| Chain end | 4 | 3000 | (C x D) | |
| Cost | 3300 | 2 | 30 | 5 |

### Block 7

| | 0 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 12000 | 9200 | 0 |
| 2 | 0 | 0 | 0 | 1200 | 1400 |
| 3 | 0 | 0 | 0 | 0 | 3000 |
| 4 | 0 | 0 | 0 | 0 | 0 |

| | | | | |
|---|---|---|---|---|
| Chain size | 3 | ((B x C) x D) | | |
| Chain begin | 2 | 1200 | (B x C) | |
| Divide at | 3 | | | |
| Chain end | 4 | 0 | (D) | |
| Cost | 1400 | 2 | 20 | 5 |

### Block 8

| | 0 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 12000 | 9200 | 3400 |
| 2 | 0 | 0 | 0 | 1200 | 1400 |
| 3 | 0 | 0 | 0 | 0 | 3000 |
| 4 | 0 | 0 | 0 | 0 | 0 |

| | | | | |
|---|---|---|---|---|
| Chain size | 4 | (A x ((B x C) x D)) | | |
| Chain begin | 1 | 0 | (A) | |
| Divide at | 1 | | | |
| Chain end | 4 | 1400 | ((B x C) x D) | |
| Cost | 3400 | 200 | 2 | 5 |

### Block 9

| | 0 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 12000 | 9200 | 3400 |
| 2 | 0 | 0 | 0 | 1200 | 1400 |
| 3 | 0 | 0 | 0 | 0 | 3000 |
| 4 | 0 | 0 | 0 | 0 | 0 |

| | | | | |
|---|---|---|---|---|
| Chain size | 4 | ((A x B) x (C x D)) | | |
| Chain begin | 1 | 12000 | (A x B) | |
| Divide at | 2 | | | |
| Chain end | 4 | 3000 | (C x D) | |
| Cost | 45000 | 200 | 30 | 5 |

### Block 10

| | 0 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 12000 | 9200 | 3400 |
| 2 | 0 | 0 | 0 | 1200 | 1400 |
| 3 | 0 | 0 | 0 | 0 | 3000 |
| 4 | 0 | 0 | 0 | 0 | 0 |

| | | | | |
|---|---|---|---|---|
| Chain size | 4 | ((A x (B x C)) x D) | | |
| Chain begin | 1 | 9200 | (A x (B x C)) | |
| Divide at | 3 | | | |
| Chain end | 4 | 0 | (D) | |
| Cost | 29200 | 200 | 20 | 5 |

| | | |
|---|---|---|
| Best | 3400 | (A x ((B x C) x D)) |