

Table 4.1 *Binary phone numbers for a telephone system with three friends*

| Friend | Probability | Phone number | | | | | |
|--------|-------------|--------------|--------|-------|------|-----|------|
| Alice | 1/4 | 0011 | 001101 | 0 | 00 | 0 | 10 |
| Bob | 1/2 | 0011 | 001110 | 1 | 11 | 11 | 0 |
| Carol | 1/4 | 1100 | 110000 | 10 | 10 | 10 | 11 |
| | | (i) | (ii) | (iii) | (iv) | (v) | (vi) |