

Rabbit Populations

Rules:

- Rabbits always live in pairs
- Once they're born, rabbits carry on living forever
- Each pair of baby rabbits takes one month to become adults
- Rabbits can only have babies once they have become adults
- Each month, every pair of adult rabbits has exactly one pair of baby rabbits

| Month | Number of pairs of baby rabbits | Number of pairs of adult rabbits | Total number of pairs of rabbits |
|-------|---------------------------------|----------------------------------|----------------------------------|
| 1 | 1 | 0 | 1 |
| 2 | 0 | 1 | 1 |
| 3 | 1 | 1 | 2 |
| 4 | 1 | 2 | 3 |
| 5 | 2 | 3 | 5 |
| 6 | 3 | 5 | 8 |
| 7 | 5 | 8 | 13 |
| 8 | 8 | 13 | 21 |
| 9 | 13 | 21 | 35 |
| 10 | 21 | 35 | 56 |
| 11 | 35 | 56 | 89 |
| 12 | 56 | 89 | 145 |