К = 5

|  |  |  |  |
| --- | --- | --- | --- |
| Запас средств | Доход от предприятий | | |
| Ф1(X) | Ф2(X) | Ф3(X) |
| 1 | 9 | 4 | 5 |
| 2 | 11 | 8 | 11 |
| 3 | 17 | 10 | 12 |
| 4 | 20 | 14 | 14 |
| 5 | 25 | 18 | 15 |

S – наличный запас средств перед этапом

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| S | Шаг 3 | | Шаг 2 | | Шаг 1 | |
| X3(S) | W3(S) | X2(S) | W2(S) | X1(S) | W1(S) |
| 0 | 0 | 0 | 0 | 0 |  |  |
| 1 | 1 | 5 | 0 | 5 |  |  |
| 2 | 2 | 11 | 0 | 11 |  |  |
| 3 | 3 | 12 | 1 | 15 |  |  |
| 4 | 4 | 14 | 3 | 19 |  |  |
| 5 | 5 | 15 | 3 | 21 | 1;3 | 28 |

S – наличный запас средств перед вторым запасом

Х – количество средств, вкладываемых в П2

Ф2(х) – доход от предприятия при вложении в него средств х

W3(X) – условный оптимальный выигрыш на третьем шаге

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | Ф2(х) + w3(s-x) | | | | | | Оптимальное решение | |
|  | x | 0 | 1 | 2 | 3 | 4 | 5 |
| s | W3(x)\ф2(x) | 0 | 4 | 8 | 10 | 14 | 18 | X2(s) | W2(s) |
| 0 | 0 | 0+0 |  |  |  |  |  | 0 | 0 |
| 1 | 5 | 0+5 | 4+0 |  |  |  |  | 0 | 5 |
| 2 | 11 | 0+11 | 4+5=9 | 8+0 |  |  |  | 0 | 11 |
| 3 | 12 | 0+12 | 4+11=15 | 8+5=13 | 10+0 |  |  | 1 | 15 |
| 4 | 14 | 0+14 | 4+12=16 | 8+11=19 | 10+5=15 | 14 |  | 3 | 19 |
| 5 | 15 | 0+15 | 4+14=18 | 8+12=18 | 10+11=21 | 14+5=19 | 18+0 | 3 | 21 |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | Ф2(х) + w3(s-x) | | | | | | Оптимальное решение | |
|  | x | 0 | 1 | 2 | 3 | 4 | 5 |
| s | W2(x)\ф1(x) | 0 | 9 | 11 | 17 | 20 | 25 | X2(s) | W2(s) |
| 0 | 0 |  |  |  |  |  |  |  |  |
| 1 | 5 |  |  |  |  |  |  |  |  |
| 2 | 11 |  |  |  |  |  |  |  |  |
| 3 | 15 |  |  |  |  |  |  |  |  |
| 4 | 19 |  |  |  |  |  |  |  |  |
| 5 | 21 | 0+21 | 9+19=28 | 11+15=26 | 17+11=28 | 20+5=25 | 25 | 1;3 | 28 |