





(0) 阶段:

$$A + B + C + D + E$$

状态"

决策:

$$V_3(C_0) = D_1$$
 $V_3(C_3) = D_3$

(2(B3)= { C1, C21C3}

指标函数:

fe1Sk)= 篇晰般,从Sk到E期最优距离,

的遊序解芸:

$$K=4$$
 $f_4(D_1)=d_4D_1, E)+f_7(E)=3$

$$K=3$$
 $f_3(G) = \min(d_3(G,S_2) + f_4(S_K)) = 5$
 $Ske(D_3,D_2,D_3)$

$$f_{2}(c_{2}) = \min_{S_{k} \in S_{k} \cap D_{1}, D_{2}, P_{3}} (d_{3}(c_{2}, S_{k}) + f_{4}(S_{k})) = 4$$

$$k=2$$
 $f_2(B_1) = min(d_2(B_1, S_K) + f_3(S_K)) = 7$ secfco, a, co)

$$K=1$$
 $f_{(lA)} = \min \{ d_{(lA)}S_k + f_{2}(S_k) \} = \delta$
 $S_k \in \{B_1, B_2, B_3\}$

こA→七最短路ではある。是A→B1→C1→D1→E



3个阶段: 分别决定X1, X2, X4取值

决虑:当前明明信机业的阻

决第一当前状段赋为SL号少值,XL=UKISK)

允许决策集: $0 \le X_1 \le \frac{S_1}{2}$, $0 \le X_2 \le \frac{S_3}{10}$

AN SI=b, Sz=SI-2XI, S3=Sz-Xz

斑 X1, 私, 独乡。

所覧指标: 8Xii,4Xii,Xi3

:. k=4, 84=0

K=3, $f_{3}(S_{0}) = max \times X_{3}^{3} + 0 = \frac{S_{3}^{2}}{(000)}$ $0 \le X_{3} \le \frac{S_{3}^{2}}{(0)}$

k=2, f2152) = max (4x2+f3153)) 05x55

> = max (4x2 + (5x-x2/5) 0 < x < 52

 $F_{1}(S_{1}) = \max(8x_{1}^{2} + f_{2}(S_{2})) = \max(8x_{1}^{2} + \frac{b_{-2}x_{1}B}{(000)})$ $0 \le x_{1} \le \frac{b_{-2}}{2}$

① $S_{1} < 4000$ 时, $f(S_{1}) = \max_{0 \le X_{1} \le \frac{1}{2}} (8X_{1}^{2} + 4(b-2X_{1})^{2}) = \max_{0 \le X_{1} \le \frac{1}{2}} (8X_{1}^{2} + 4(b-2X_{1})^{2}) = \max_{0 \le X_{1} \le \frac{1}{2}} (8X_{1}^{2} + 4(b-2X_{1})^{2}) = \max_{0 \le X_{1} \le \frac{1}{2}} (8X_{1}^{2} + 4(b-2X_{1})^{2}) = \max_{0 \le X_{1} \le \frac{1}{2}} (8X_{1}^{2} + 4(b-2X_{1})^{2}) = \max_{0 \le X_{1} \le \frac{1}{2}} (8X_{1}^{2} + 4(b-2X_{1})^{2}) = \max_{0 \le X_{1} \le \frac{1}{2}} (8X_{1}^{2} + 4(b-2X_{1})^{2}) = \max_{0 \le X_{1} \le \frac{1}{2}} (8X_{1}^{2} + 4(b-2X_{1})^{2}) = \max_{0 \le X_{1} \le \frac{1}{2}} (8X_{1}^{2} + 4(b-2X_{1})^{2}) = \max_{0 \le X_{1} \le \frac{1}{2}} (8X_{1}^{2} + 4(b-2X_{1})^{2}) = \max_{0 \le X_{1} \le \frac{1}{2}} (8X_{1}^{2} + 4(b-2X_{1})^{2}) = \max_{0 \le X_{1} \le \frac{1}{2}} (8X_{1}^{2} + 4(b-2X_{1})^{2}) = \max_{0 \le X_{1} \le \frac{1}{2}} (8X_{1}^{2} + 4(b-2X_{1})^{2}) = \max_{0 \le X_{1} \le \frac{1}{2}} (8X_{1}^{2} + 4(b-2X_{1})^{2}) = \max_{0 \le X_{1} \le \frac{1}{2}} (8X_{1}^{2} + 4(b-2X_{1})^{2}) = \max_{0 \le X_{1} \le \frac{1}{2}} (8X_{1}^{2} + 4(b-2X_{1})^{2}) = \max_{0 \le X_{1} \le \frac{1}{2}} (8X_{1}^{2} + 4(b-2X_{1})^{2}) = \max_{0 \le X_{1} \le \frac{1}{2}} (8X_{1}^{2} + 4(b-2X_{1})^{2}) = \max_{0 \le X_{1} \le \frac{1}{2}} (8X_{1}^{2} + 4(b-2X_{1})^{2}) = \max_{0 \le X_{1} \le \frac{1}{2}} (8X_{1}^{2} + 4(b-2X_{1})^{2}) = \max_{0 \le X_{1} \le \frac{1}{2}} (8X_{1}^{2} + 4(b-2X_{1})^{2}) = \max_{0 \le X_{1} \le \frac{1}{2}} (8X_{1}^{2} + 4(b-2X_{1})^{2}) = \max_{0 \le X_{1} \le \frac{1}{2}} (8X_{1}^{2} + 4(b-2X_{1})^{2}) = \max_{0 \le X_{1} \le \frac{1}{2}} (8X_{1}^{2} + 4(b-2X_{1})^{2}) = \min_{0 \le X_{1} \le \frac{1}{2}} (8X_{1}^{2} + 4(b-2X_{1})^{2}) = \min_{0 \le X_{1} \le \frac{1}{2}} (8X_{1}^{2} + 4(b-2X_{1})^{2}) = \min_{0 \le X_{1} \le \frac{1}{2}} (8X_{1}^{2} + 4(b-2X_{1})^{2}) = \min_{0 \le X_{1} \le \frac{1}{2}} (8X_{1}^{2} + 4(b-2X_{1})^{2}) = \min_{0 \le X_{1} \le \frac{1}{2}} (8X_{1}^{2} + 4(b-2X_{1})^{2}) = \min_{0 \le X_{1} \le \frac{1}{2}} (8X_{1}^{2} + 4(b-2X_{1})^{2}) = \min_{0 \le X_{1} \le \frac{1}{2}} (8X_{1}^{2} + 4(b-2X_{1})^{2}) = \min_{0 \le X_{1} \le \frac{1}{2}} (8X_{1}^{2} + 4(b-2X_{1})^{2}) = \min_{0 \le X_{1} \le \frac{1}{2}} (8X_{1}^{2} + 4(b-2X_{1})^{2}) = \min_{0 \le X_{1} \le \frac{1}{2}} (8X_{1}^{2} + 4(b-2X_{1})^{2}) = \min_{0 \le X_{1} \le \frac{1}{2}} (8X_{1}^{2} + 4(b-2X_{1})^{2}) = \min_{0 \le X_{1} \le \frac{1$

(2) S2>/4000 BJ,

3. 值迭代:

D filui=10 - filuz)=6 filus)=10 filus)=2

 $\frac{\partial}{\partial x} = \frac{1}{2(|x|)} = \min_{x \in X} \int \frac{\partial}{\partial x} \left(x_{1} \Rightarrow x_{2} \Rightarrow x_{3} \right) + \sum_{x \in X} \int \frac{\partial}{\partial x} \left(x_{1} \Rightarrow x_{2} \Rightarrow x_{3} \right) \\
= \int \frac{\partial}{\partial x} \left(x_{2} \right) = \min_{x \in X} \int \frac{\partial}{\partial x} \left(x_{1} \Rightarrow x_{2} \Rightarrow x_{3} \right) \\
= \int \frac{\partial}{\partial x} \left(x_{2} \Rightarrow x_{3} \Rightarrow x_{4} \Rightarrow x_{4} \right) \\
= \int \frac{\partial}{\partial x} \left(x_{2} \Rightarrow x_{3} \Rightarrow x_{4} \Rightarrow x_{4} \right) \\
= \int \frac{\partial}{\partial x} \left(x_{1} \Rightarrow x_{2} \Rightarrow x_{3} \Rightarrow x_{4} \Rightarrow x_{4} \right) \\
= \int \frac{\partial}{\partial x} \left(x_{1} \Rightarrow x_{2} \Rightarrow x_{3} \Rightarrow x_{4} \Rightarrow x_{$

$$\begin{cases}
f_{3}(v_{1}) = \min\{0+8, 2+6, 3+3, 0+2\} = 6 & (v_{1} \Rightarrow v_{3} \Rightarrow v_{4} \Rightarrow v_{4})
\end{cases}$$

$$f_{3}(v_{2}) = \min\{2+8, 0+6, 2+3, (-42) = 5 & (v_{3} \Rightarrow v_{4} \Rightarrow v_{4})
\end{cases}$$

$$f_{3}(v_{3}) = \min\{3+8, 2+6, 0+3, 1+2\} = 3 & (v_{3} \Rightarrow v_{4} \Rightarrow v_{4})$$

$$f_{3}(v_{4}) = \min\{3+8, 2+6, 0+3, 1+2\} = 2 & (v_{4} \Rightarrow v_{4})
\end{cases}$$

强略进代法:

初始年昭: 1-2-3-4-5

$$P(1|V_1) = 2+f_1(V_2)$$
 $f_1(V_1) = 7$
 $f_1(V_2) = 2+f_1(V_3)$ $f_1(V_2) = 5$
 $f_1(V_3) = 1+f_1(V_4)$ $f_1(V_3) = 3$
 $f_1(V_4) = 2+f_1(V_4)$ $f_1(V_4) = 2$

$$f_{2}(V_{1}) = 3 + f_{1}(V_{3}) \qquad f_{2}(V_{2}) = 6$$

$$f_{2}(V_{2}) = 2 + f_{1}(V_{3}) \qquad f_{2}(V_{2}) = 5$$

$$f_{2}(V_{3}) = 1 + f_{1}(V_{4}) \qquad f_{2}(V_{3}) = 3$$

$$f_{2}(V_{4}) = 2 + f_{1}(V_{4}) \qquad f_{2}(V_{4}) = 2$$

停避代, 得黑灰解