

「グラフと組み合わせ」課題 2 (解答例)

2010/4/19

1 グラフの記述

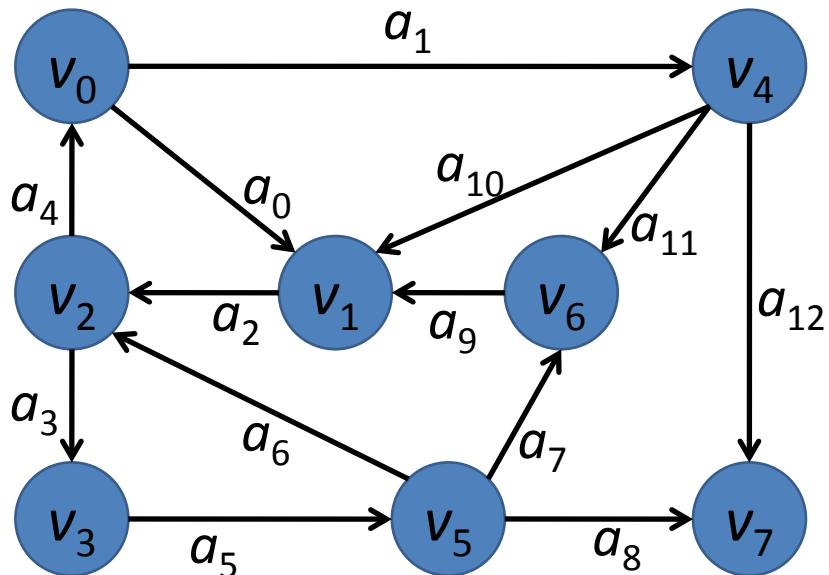
二つの集合

$$V = \{v_0, v_1, v_2, v_3, v_4, v_5, v_6, v_7\}$$

$$A = \{a_0, a_1, a_2, a_3, a_4, a_5, a_6, a_7, a_8, a_9, a_{10}, a_{11}, a_{12}\}$$

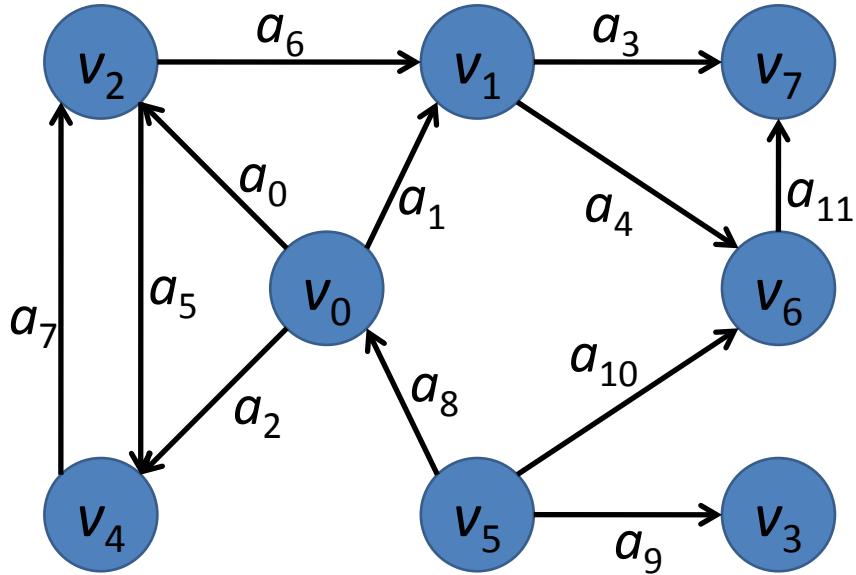
$$\begin{array}{llll} \partial^+ a_0 = v_0 & \partial^- a_0 = v_1 & \partial^+ a_1 = v_0 & \partial^- a_1 = v_4 \\ \partial^+ a_2 = v_1 & \partial^- a_2 = v_2 & \partial^+ a_3 = v_2 & \partial^- a_3 = v_3 \\ \partial^+ a_4 = v_2 & \partial^- a_4 = v_0 & \partial^+ a_5 = v_3 & \partial^- a_5 = v_5 \\ \partial^+ a_6 = v_5 & \partial^- a_6 = v_2 & \partial^+ a_7 = v_5 & \partial^- a_7 = v_6 \\ \partial^+ a_8 = v_5 & \partial^- a_8 = v_7 & \partial^+ a_9 = v_6 & \partial^- a_9 = v_1 \\ \partial^+ a_{10} = v_4 & \partial^- a_{10} = v_1 & \partial^+ a_{11} = v_4 & \partial^- a_{11} = v_6 \\ \partial^+ a_{12} = v_4 & \partial^- a_{12} = v_7 & & \end{array}$$

解答例



2 グラフの記述(幾何学的表現から記号表現へ)

次のグラフを記号で表現しなさい。



解答例

$$V = \{v_0, v_1, v_2, v_3, v_4, v_5, v_6, v_7\}$$

$$A = \{a_0, a_1, a_2, a_3, a_4, a_5, a_6, a_7, a_8, a_9, a_{10}, a_{11}, a_{12}\}$$

$$A = \{a_0, a_1, a_2, a_3, a_4, a_5, a_6, a_7, a_8, a_9, a_{10}, a_{11}\}$$

$$\begin{array}{llll}
 \partial^+ a_0 = v_0 & \partial^- a_0 = v_2 & \partial^+ a_1 = v_0 & \partial^- a_1 = v_1 \\
 \partial^+ a_2 = v_1 & \partial^- a_2 = v_4 & \partial^+ a_3 = v_1 & \partial^- a_3 = v_7 \\
 \partial^+ a_4 = v_2 & \partial^- a_4 = v_6 & \partial^+ a_5 = v_2 & \partial^- a_5 = v_4 \\
 \partial^+ a_6 = v_2 & \partial^- a_6 = v_1 & \partial^+ a_7 = v_4 & \partial^- a_7 = v_2 \\
 \partial^+ a_8 = v_5 & \partial^- a_8 = v_0 & \partial^+ a_9 = v_5 & \partial^- a_9 = v_3 \\
 \partial^+ a_{10} = v_5 & \partial^- a_{10} = v_6 & \partial^+ a_{11} = v_6 & \partial^- a_{11} = v_7
 \end{array}$$