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(* Adam Beck *)
(* Problem 1*)
(*hosp-heart.nb data *)
(* {M,V} M = one year mortality rate,
percentage of patiuents that died within one year of the
 transplant operation,
V = average annual number of transplants at that center during the same 4 years *)
heart = \{\{17.9, 27\}, \{23.1, 4\}, \{40, 3\}, \{6.5, 35\}, \{14.9, 17\}, \{12.5, 4\}, \{15.7, 45\},
    \{9.8, 28\}, \{24, 6\}, \{5.0, 10\}, \{15.4, 13\}, \{4.8, 7\}, \{0, 1\}, \{19.1, 47\}, \{4.5, 6\},
    \{15, 56\}, \{12.5, 4\}, \{33.9, 8\}, \{10.7, 9\}, \{13, 14\}, \{28.3, 12\}, \{57.1, 2\}, \{6.3, 4\},
    \{10, 3\}, \{8.3, 12\}, \{17.5, 10\}, \{20, 3\}, \{29.3, 10\}, \{21.4, 7\}, \{27.3, 8\}, \{13.6, 6\},
    \{21.8, 30\}, \{36.4, 3\}, \{18.2, 11\}, \{33.3, 2\}, \{20, 4\}, \{38.5, 7\}, \{20.8, 18\}, \{12.2, 19\},
    \{22.2, 18\}, \{29, 8\}, \{0, 9\}, \{5.7, 9\}, \{50, 2\}, \{21.7, 15\}, \{66.7, 4\}, \{29.4, 17\},
    \{12.1, 27\}, \{10.7, 14\}, \{6.3, 4\}, \{16.2, 9\}, \{21.1, 5\}, \{17.4, 33\}, \{23.9, 17\},
    \{42.9, 2\}, \{40, 2\}, \{6.7, 15\}, \{44.4, 3\}, \{18.7, 34\}, \{14.7, 24\}, \{7.4, 7\}, \{12.6, 24\},
    \{9.7, 26\}, \{44.4, 2\}, \{16.7, 6\}, \{15.8, 14\}, \{83.3, 2\}, \{10.9, 22\}, \{13.3, 5\},
    \{11.1, 5\}, \{75, 2\}, \{19, 20\}, \{14, 13\}, \{60, 1\}, \{21.2, 8\}, \{9.7, 8\}, \{50, 2\}, \{25, 14\},
    \{18.6, 15\}, \{0.0, 1\}, \{35.3, 9\}, \{23.5, 85\}, \{15.6, 11\}, \{37.5, 2\}, \{14.3, 28\},
    \{14.3, 4\}, \{16.7, 6\}, \{20.0, 15\}, \{13.0, 17\}, \{9.6, 26\}, \{66.7, 3\}, \{30.8, 3\},
    {14.0, 13}, {27.5, 10}, {37.5, 8}, {18.9, 13}, {0.0, 4}, {12.2, 44}, {57.1, 4},
    \{21.4, 35\}, \{23.4, 16\}, \{10.9, 12\}, \{15.6, 8\}, \{16.7, 2\}, \{13.9, 9\}, \{18.2, 11\},
    \{11.5, 26\}, \{18.4, 13\}, \{16.7, 3\}, \{20.4, 14\}, \{40.0, 5\}, \{20.7, 56\}, \{19.6, 13\},
    \{13.5, 9\}, \{29.9, 36\}, \{8.4, 21\}, \{28.4, 24\}, \{7.7, 23\}, \{19.3, 29\}, \{0.0, 1\},
    \{22.2, 20\}, \{30.0, 5\}, \{7.0, 11\}, \{23.8, 7\}, \{18.8, 29\}, \{14.5, 16\}, \{17.0, 16\},
    {20.0, 15}, {6.7, 15}, {11.4, 20}, {100.0, 1}, {31.4, 9}, {17.6, 26}, {19.6, 14}};
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