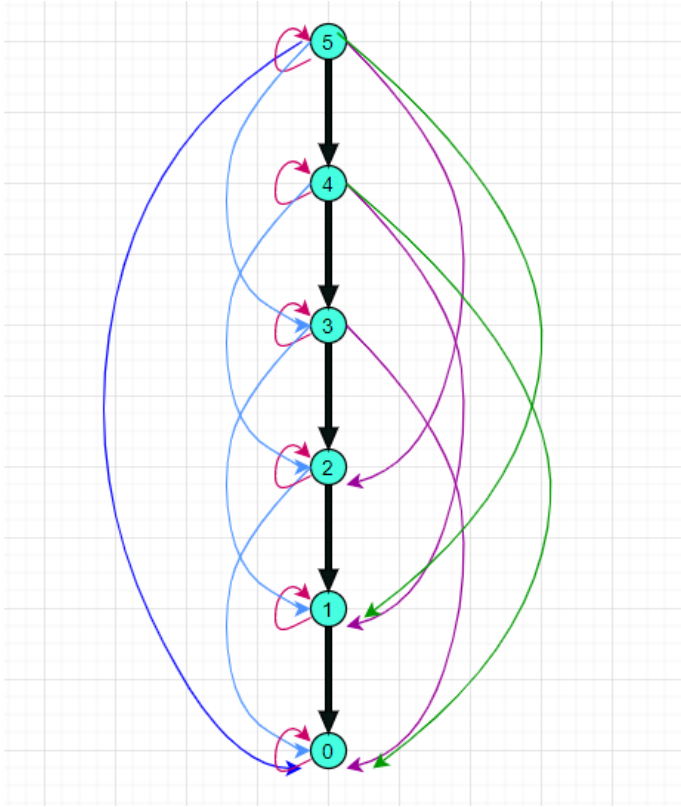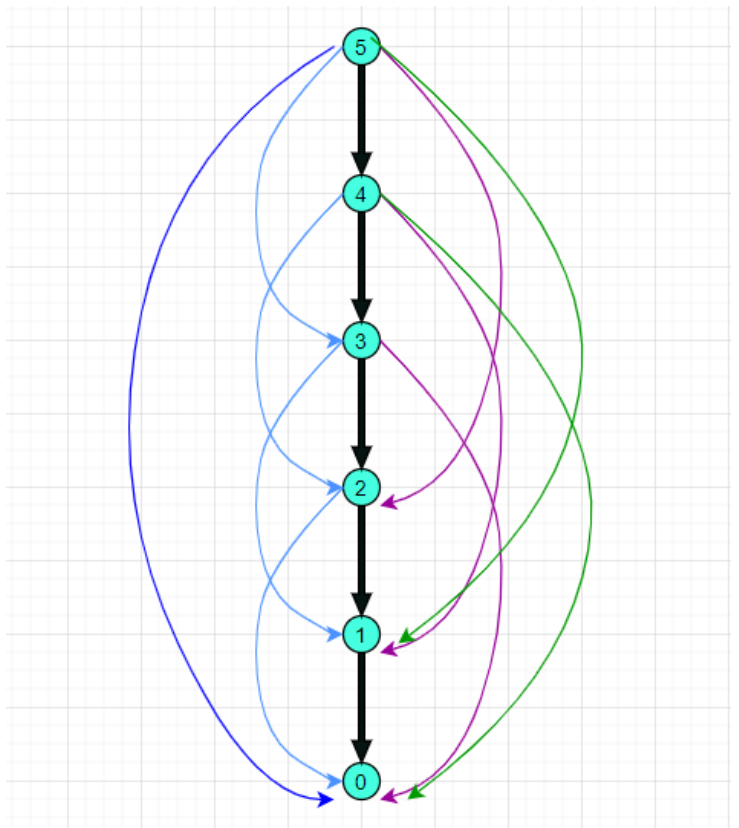# CSE 211 HW2   Yeşim Yalçın-200104004094
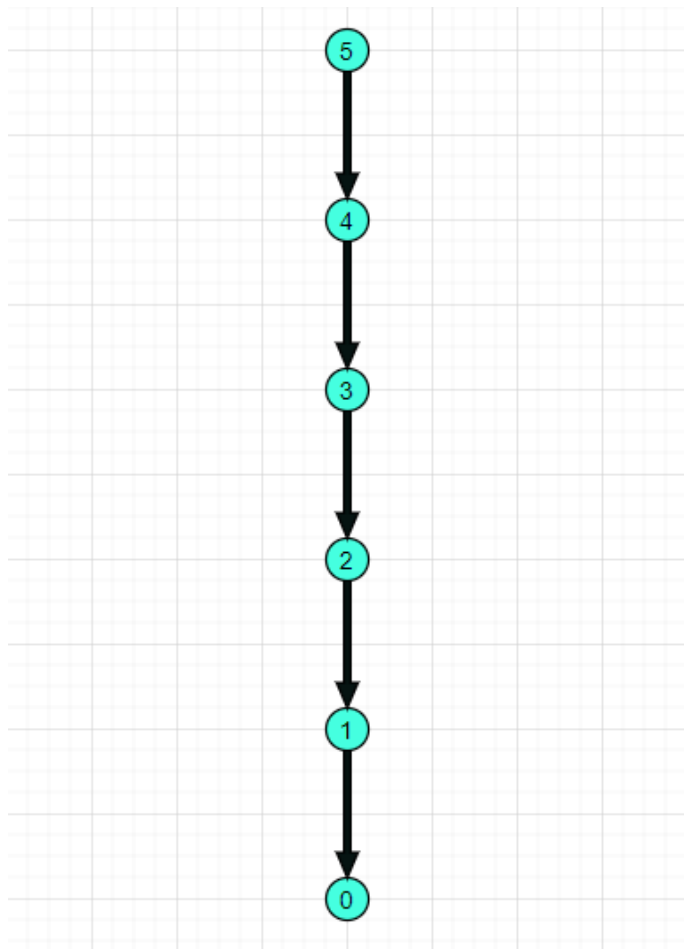
Question 1
The Original Hasse Diagram which includes reflexivity and transitivity:

The diagram when the reflexivity is deleted:

The diagram when the transitivity is deleted:

Question 2

a-) The maximal elements are:
{{1,3,4}} and {{2,3,4}}

b-) The minimal elements are:
{1},{2},{4}

c-) There is no greatest element because there are 2 maximal elements that we cannot compare with eachother.

d-) The upper bounds of {{2}, {4}}:
{{2,4}}, {{2,3,4}}

e-) The least upper bound of {{2}, {4}}:
{{2,4}}

f-) The lower bounds of {{1, 3, 4}, {2, 3, 4}}:
{{3,4}},{{4}}

h-) The greatest lower bound of {{1, 3, 4}, {2, 3, 4}}:
{{3,4}}