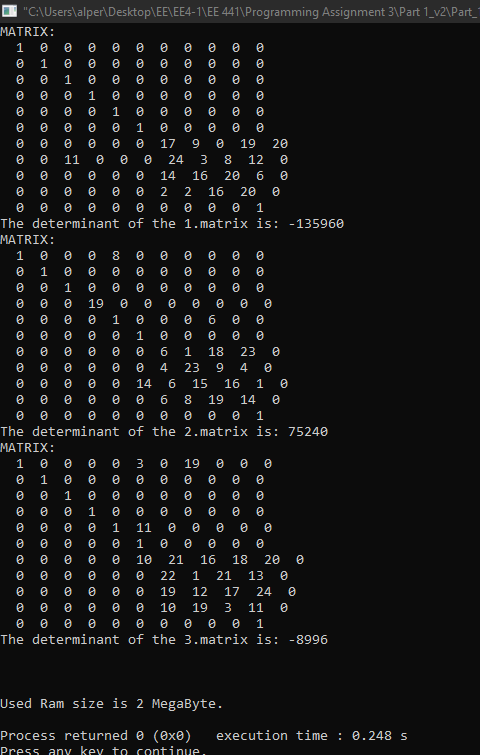
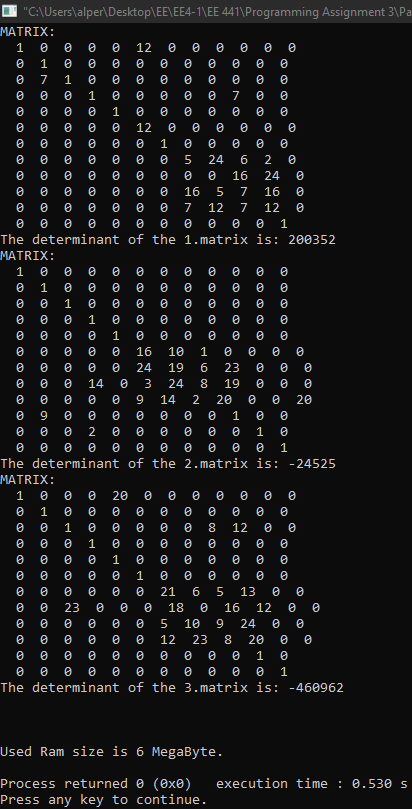
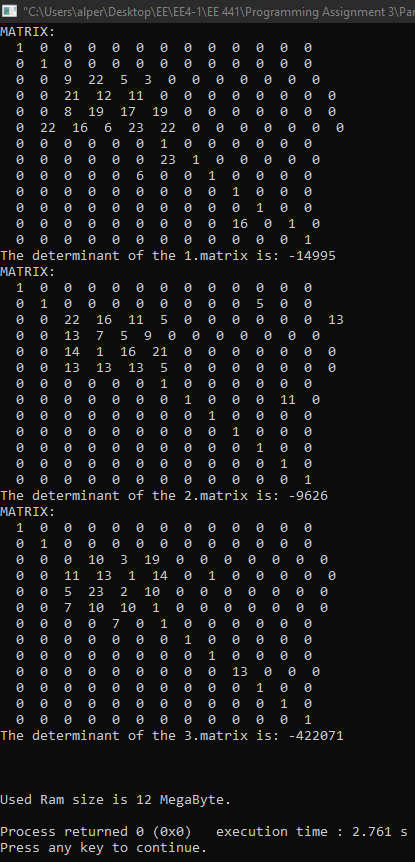
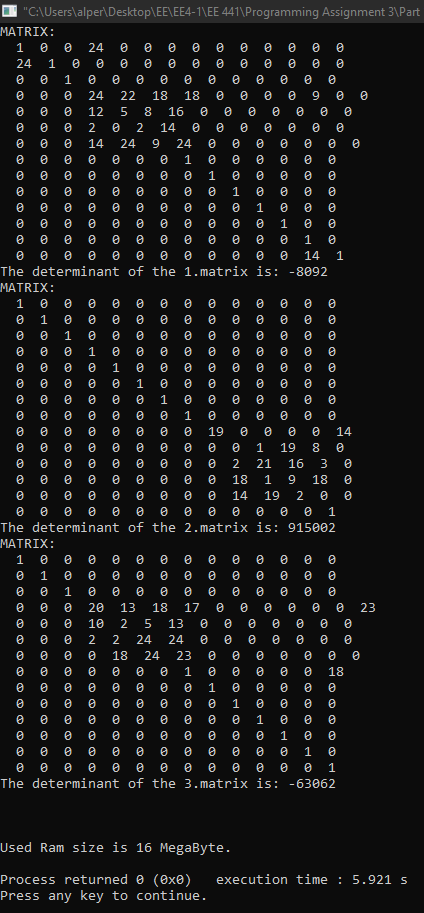
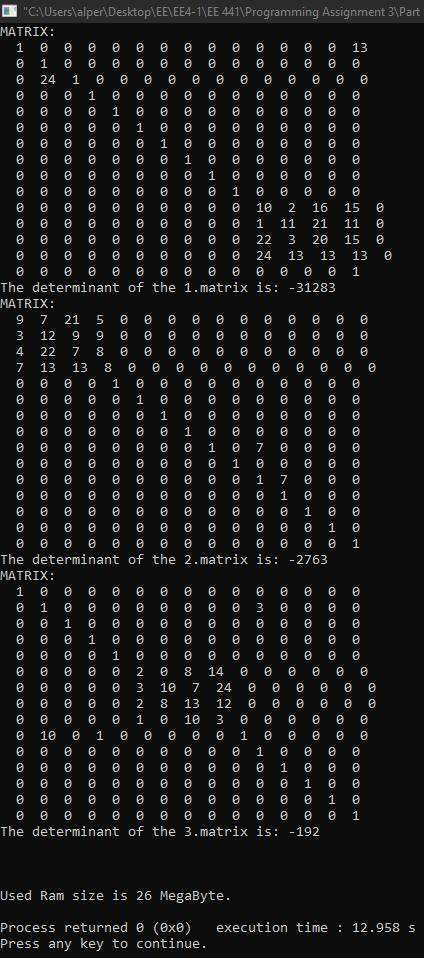
Part-1

11x11 12x12 13x13

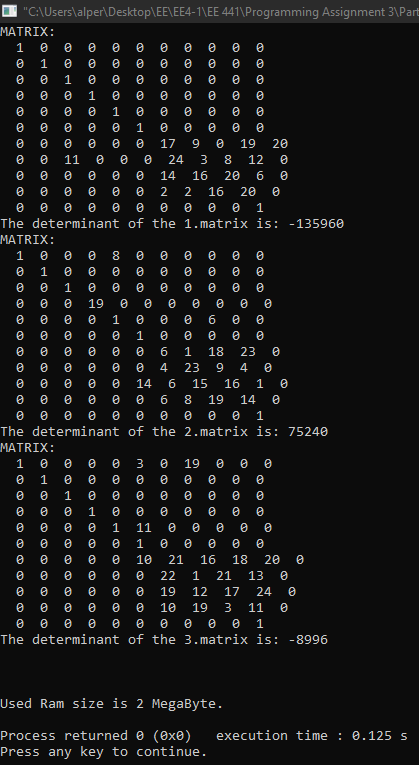
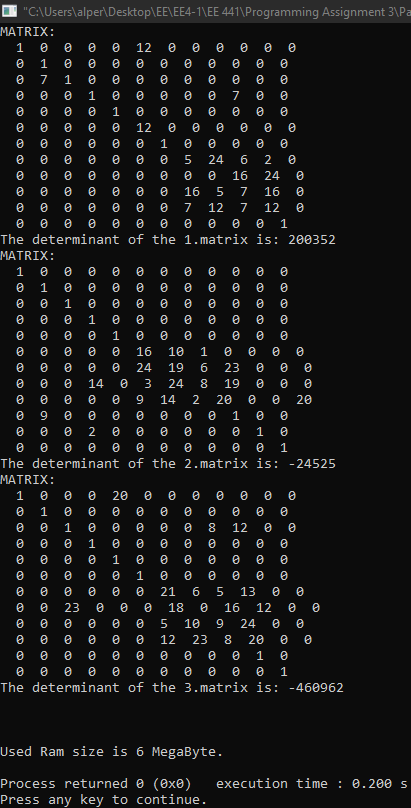
  

14x14 15x15

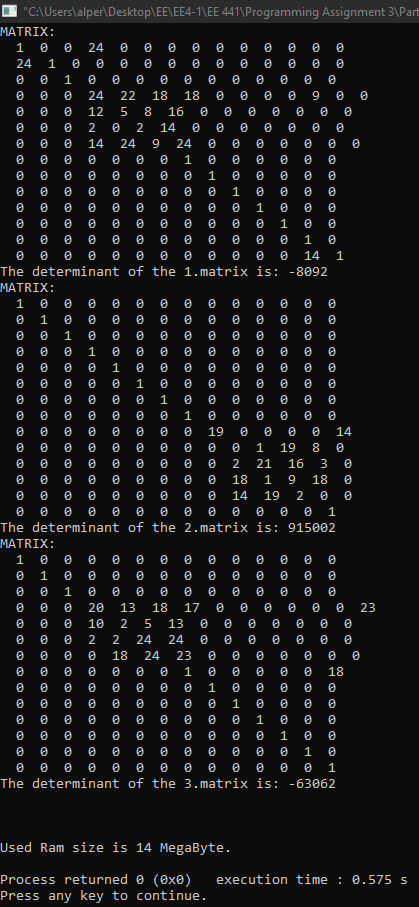
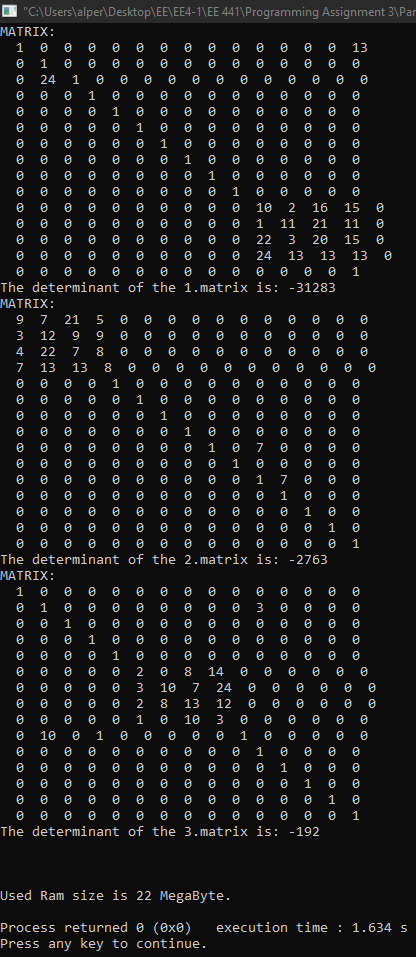
Part-2

11x11 12x12 13x13

  Shape

Description automatically generated with medium confidence

14x14 15x15

Part-3

Chart, line chart

Description automatically generatedChart, line chart

Description automatically generated

Chart, line chart

Description automatically generatedChart, line chart

Description automatically generated

In all parts, while ram usage increases linearly but we cannot say the same thing for execution time. Since reaching the nodes of the tree is getting harder, execution time becomes increasing logarithmically.