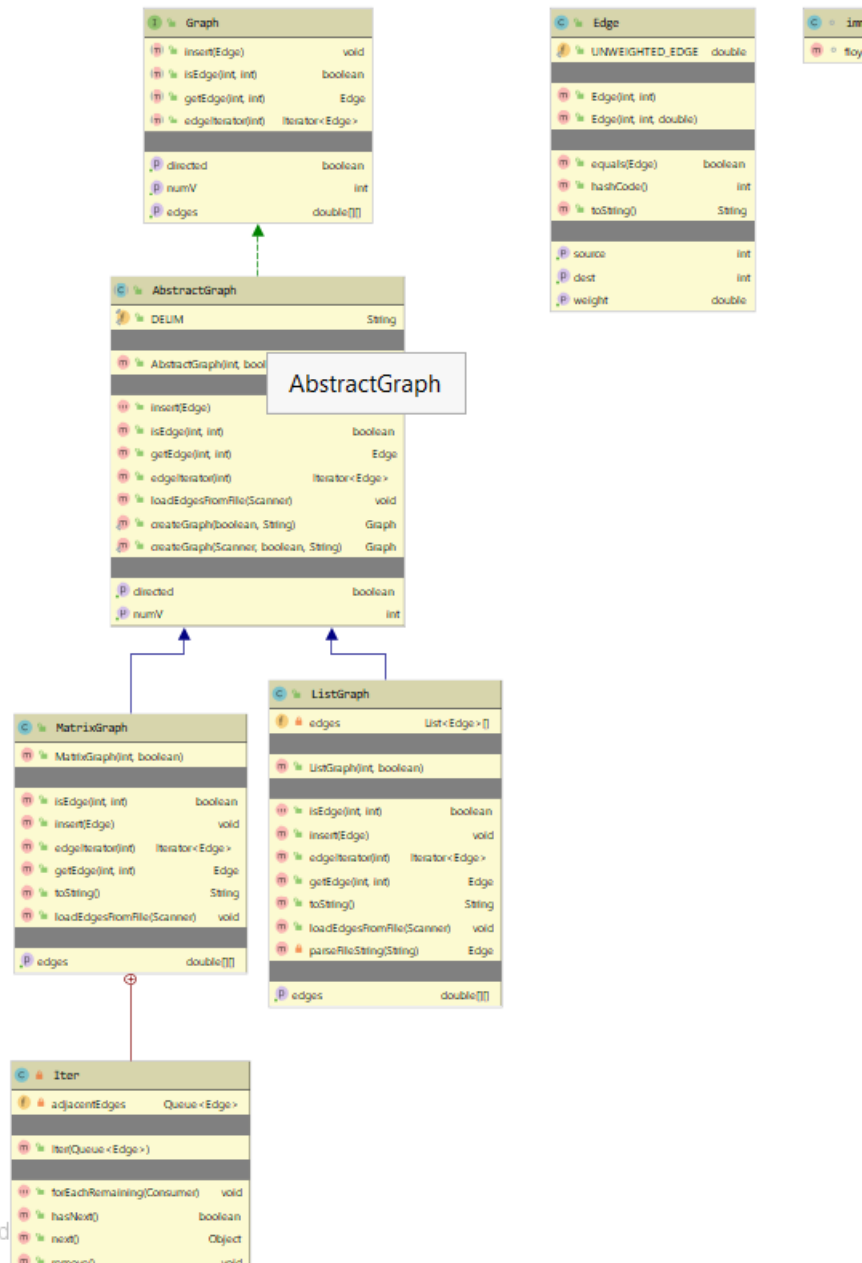


**GIT Department of  
Computer  
Engineering  
CSE 222/505 - Spring  
2021  
Homework 8 Report  
*part 3***

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# CLASS DIAGRAM



## ***Problem solutions approach***

First, we found the shortest path between 2 vertexes, then by determining an immediate vertex, many paths were determined on the condition of visiting it, and the result was found by replacing it in the formula.

## ***Running command and results /Test Case***

```
System.out.println(imm.floydWarshall(graph.getEdges(),graph.getNumV(),5));
```

```
5->immediate vertex number
```

```
for(;k<V;k++)
{
    for (i = 0; i < V; i++)
    {
        for (j = 0; j < V; j++)
        {
            if (dist[i][k] + dist[k][j] < dist[i][j])
            {
                dist[i][j] = dist[i][k] + dist[k][j];
                count = dist[i][k] + dist[k][j]+count;
                u=i;
                v=j;
            }
        }
    }
}
```

calculate count access immediate vertex total shortest path

calculate not access immediate vertex total shortest path

mother vertex

```
fair importance value :
```

```
2.4285714285714284
```