1.,

|  |  |  |  |
| --- | --- | --- | --- |
| A | 50 C |  |  |
| B | 75 D | 10 E | 25 F |
| C | 10 B | 150 G |  |
| D | 40 G |  |  |
| E | 20 F |  |  |
| F | 15 D |  |  |
| G | 25 H |  |  |
| H |  |  |  |

2.,

|E| = 10

|V| = 8

Denstity = E / V = 1.25

3.,

Adjecency list

4.,

|  |  |  |
| --- | --- | --- |
| Vertex | Queue Content | Visit |
| A | C | A |
| C | B, G | A, C |
| B | G, E, F, D | A, C, B |
| G | E, F, D, H | A, C, B, G |
| E | F, D, H | A, C, B, G, E |
| F | D, H | A, C, B, G, E, F |
| D | H | A, C, B, G, E, F, D |
| H |  | A, C, B, G, E, F, D, H |

Diagram

Description automatically generated with medium confidence

5.,

|  |  |  |
| --- | --- | --- |
| Vertex | Stack | Visit |
| A | C | A |
| C | B, G | A, C |
| G | B, H | A, C, G |
| H | B | A, C, G, H |
| B | E, F, D | A, C, G, H, B |
| D | E, F | A, C, G, H, B, D |
| F | E | A, C, G, H, B, D, F |
| E |  | A, C, G, H, B, D, F, E |

6.,