

## ข้อ W10\_3

จงเขียนโปรแกรมกราฟ Dijkstra

```
g->initial_graph(9);
g->insert_graph(0, 1, 4);
g->insert_graph(0, 7, 8);
g->insert_graph(1, 0, 4);
g->insert_graph(1, 2, 8);
g->insert_graph(1, 7, 11);
g->insert_graph(2, 1, 8);
g->insert_graph(2, 3, 7);
g->insert_graph(2, 5, 4);
g->insert_graph(2, 8, 2);
g->insert_graph(3, 2, 7);
g->insert_graph(3, 4, 9);
g->insert_graph(3, 5, 14);
g->insert_graph(4, 3, 9);
g->insert_graph(4, 5, 10);
g->insert_graph(5, 2, 4);
g->insert_graph(5, 3, 14);
g->insert_graph(5, 4, 10);
g->insert_graph(5, 6, 2);
g->insert_graph(6, 5, 2);
g->insert_graph(6, 7, 1);
g->insert_graph(6, 8, 6);
g->insert_graph(7, 0, 8);
g->insert_graph(7, 1, 11);
g->insert_graph(7, 6, 1);
g->insert_graph(7, 8, 7);
g->insert_graph(8, 2, 2);
g->insert_graph(8, 6, 6);
g->insert_graph(8, 7, 7);
```

input	output
	<pre> [1]  0  = 99999  0 1  = 4  0  = 99999  0  = 99999  0  = 99999  0  = 99999  0  = 99999  0 7  = 8  0  = 99999 -----  [7]  0  = 99999  0 1  = 4  0 1 2  = 12  0  = 99999  0  = 99999  0  = 99999  0  = 99999  0 7  = 8  0  = 99999 -----  [6]  0  = 99999  0 1  = 4  0 1 2  = 12  0  = 99999  0  = 99999  0  = 99999  0 7 6  = 9  0 7  = 8  0 7 8  = 15 -----  [5]  0  = 99999  0 1  = 4  0 1 2  = 12  0  = 99999  0  = 99999  0 7 6 5  = 11  0 7 6  = 9  0 7  = 8  0 7 8  = 15 -----  [2]  0  = 99999  0 1  = 4  0 1 2  = 12  0 7 6 5 3  = 25  0 7 6 5 4  = 21 </pre>

	$ 0 7 6 5  = 11$ $ 0 7 6  = 9$ $ 0 7  = 8$ $ 0 7 8  = 15$ ----- $[8]$ $ 0  = 99999$ $ 0 1  = 4$ $ 0 1 2  = 12$ $ 0 1 2 3  = 19$ $ 0 7 6 5 4  = 21$ $ 0 7 6 5  = 11$ $ 0 7 6  = 9$ $ 0 7  = 8$ $ 0 1 2 8  = 14$ ----- $[3]$ $ 0  = 99999$ $ 0 1  = 4$ $ 0 1 2  = 12$ $ 0 1 2 3  = 19$ $ 0 7 6 5 4  = 21$ $ 0 7 6 5  = 11$ $ 0 7 6  = 9$ $ 0 7  = 8$ $ 0 1 2 8  = 14$ ----- $[4]$ $ 0  = 99999$ $ 0 1  = 4$ $ 0 1 2  = 12$ $ 0 1 2 3  = 19$ $ 0 7 6 5 4  = 21$ $ 0 7 6 5  = 11$ $ 0 7 6  = 9$ $ 0 7  = 8$ $ 0 1 2 8  = 14$ -----
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