Homework 5. Shortest Path due: 6/7

1. COST MATRIX

	0	**1**	**2**	**3**	**4**	**5**	**6**
0	100	2	4	5	100	100	100
1	100	100	100	2	7	100	100
2	100	100	100	1	100	4	100
3	100	2	1	100	4	3	100
4	100	7	100	4	100	1	5
5	100	100	4	3	1	100	7
6	100	100	100	100	7	5	100

2. Shortest Path Algorithm 은 교재 또는 수업시간의 알고리즘을 사용할 것

   * More informations on the Program

   1) main()
   - print adjacency matrix
   - call shortest(vertex 0)

   2) Shortest(0) //start vertex '0'
   - 초기화 (visited[7] ← false, dist[0] ← cost[0][I])
   - while (<7)
     . u <= choose(dist, 7) //find min node
     . for (I= 0 ~ 7) find shortest //algorithm 참조
     . print dist[I]

   3) choose(dist, 7)
   for all vertex, if not visited, find min node

3. **Correct Output 은 다음과 같다.**

   1) Adjacency Matrix => Cost matrix 를 출력할 것

   2) Shortest path distance

   Dist: 0 2 4 4 9 100 100
   Dist: 0 2 4 4 9 8 100
   Dist: 0 2 4 4 8 7 100
   Dist: 0 2 4 4 8 7 14
   Dist: 0 2 4 4 8 7 13
   Dist: 0 2 4 4 8 7 13