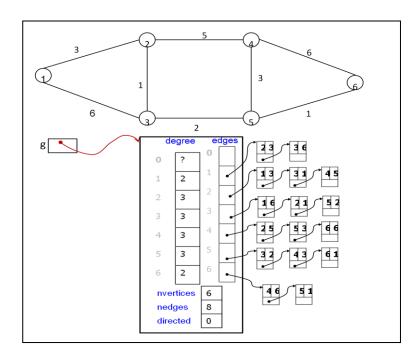
CS2123 Data Structures

Suppose we use the following structures to represent a graph using **adjacency list** and read the information about the below graph form a file. Accordingly, we create its adjacency list as shown below.

```
#define MAXV 6
typedef struct edgenode {
   int y;
   int w;
   struct edgenode
                     *next;
} edgenodeT;
typedef struct {
   edgenodeT *edges[MAXV+1];
   int degree[MAXV+1];
   int visited[MAXV+1];
   int parent[MAXV+1];
   int distance[MAXV+1];
   int nvertices;
   int nedges;
  bool directed;
} graphT;
```



Now we want to find the shortest path from node 6 to all other nodes. You are asked to trace the Dijkstra's algorithm by showing the changes in distance and parent information at each node...

How about a graph like this?

graphT *g;

