Zu Aufgabe 5, Teil a,b und c:

```c
#define infinity MAXREAL
#define NMAX 100

typedef struct AdjMatrix
{
  int n;
  char el[NMAX][NMAX];
  double value[NMAX][NMAX];
  double distance[NMAX][NMAX];
} AdjMatrix;

AdjMatrix A;

void ReadData(AdjMatrix *a) { ... }

void DoSomething(AdjMatrix *a)
{
  int k,v,w;
  double tmp;

  for(v=0 ; v < a->n ;  ++v)
    for(w=0 ; w < a->n ; ++w)
      if(w==v) a->distance[v][w]=0.0;
      else if(a->el[v][w]) a->distance[v][w] = a->value[v][w];
           else a->distance=infinity;

  for(k=0 ; k < a->n ; ++k)
    for(v=0 ; v < a->n ; ++v)
      for(w=0 ; w < a->n ; ++w)
      {
        tmp = a->distance[v][k] + a->distance[k][w];
        a->distance[v][w] = (a->distance[v][w] < tmp ? a->distance[v][w] : tmp);
      }
}

int main(void)
{
  ReadData(&A);
  DoSomething(&A);
  return 0;
}
```