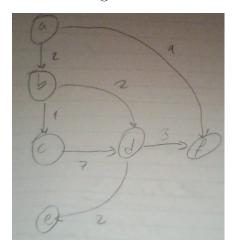
Dinamik Programlama



Ustteki cizite tekabul eden veriyi kodlayalim

En kisa yolu bulacak program

in u

```
from functools import wraps
def memo(func):
     cache = \{\}
     @wraps(func)
     def wrap(*args):
          if args not in cache:
               print 'miss', args
cache[args] = func(*args)
          else: print 'hit', args
          return cache [args]
     return wrap
\mathbf{def} \operatorname{rec}_{-} \operatorname{dag}_{-} \operatorname{sp}(W, s, t):
     @memo
     \mathbf{def} \ d(\mathbf{u}):
          print ('in u')
          if u = t: return 0
          return \min(W[u][v]+d(v) for v in W[u])
     return d(s)
dist = rec_dag_sp(DAG, 'a', 'f')
print 'uzaklik=', dist
miss ('a',)
```

```
miss ('b',)
in u
miss ('c',)
in u
miss ('d',)
in u
miss ('e',)
in u
miss ('f',)
in u
hit ('f',)
hit ('d',)
hit ('f',)
```

uzaklik= 7