Sorting Algorithms

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Print Algorithm

def printmat(M):
    c = len(M[0])
    for i in range(len(M)):
        for j in range(c):
            print(M[i][j], end =" ")
        print()
```

```
PrettyPrint Algorithm

def prettyprint(M,d):
    s = "|{:"+str(d)+"d}"
    c = len(M[0])
    for i in range(len(M)):
        print("-"*(d+2)*c)
        for j in range(c):
            print(s.format(M[i][j]), end=" ")
        print("|")
    print("-"*(d+2)*c)
```

```
Init & Load Algorithm
def init(1,c,val):
    matrix = []
    for i in range(1):
        1 = []
        for j in range(c):
            1.append(val)
        matrix.append(1)
    return matrix
def __str2intlist(str):
    \Gamma = []
    nb = ""
    for c in str:
       if c != " " or c != "\n":
           nb += c
        else:
            L.append(nb)
    return L
def __str2intlist2(str):
    n = len(s)-1
    i = 0
    L = []
    while i<n:
        word = ""
        while i<n and L[i]!=" ":
            word += str[i]
            i += 1
        L.append(int(word))
        i += 1
    return L
def load(filename):
    f = open(filename)
    lines = f.readlines()
    f.close()
    M = []
    for line in lines:
        M.append(__str2intlist(line))
    return M
```