**For graph1k**

1 to 100: 1, 5, 487, 175, 714, 799, 222, 561, 100 (cost: 141)

100 to 1: 100, 259, 229, 641, 538, 854, 1 (cost: 196)

**For graph10k**

1 to 100: 1, 7317, 460, 6010, 5295, 4560, 5513, 8467, 3517, 99, 9159, 6840, 5177, 7133, 288, 100 (cost: 344)

100 to 1: 100, 4442, 3980, 1974, 407, 4489, 5162, 2008, 3631, 2305, 8336, 1 (cost: 238)

**For graph100k**

1 to 100: 1, 99842, 59480, 5210, 19068, 66428, 33692, 97073, 23675, 73057, 100 (cost: 304)

100 to 1: 100, 85636, 77467, 52472, 38155, 40962, 34650, 29215, 35260, 1(cost: 361)

**For graph1m**

1 to 100: 1, 113339, 338521, 722882, 513720, 994997, 958232, 435490, 375494, 105156, 837492, 401191, 23351, 560726, 307917, 617892, 377207, 100 (cost: 337)

100 to 1: 100, 626497, 178645, 739118, 395811, 788262, 685919, 845255, 119205, 677797, 556388, 541983, 851939, 935720, 999999, 660201, 208831, 1 (cost: 327)