Homework 7
Knights Tour
CMSC351
Jee Kang

Input: **"Jee Kang"**
Start Location: **C8**
Offest: **6**

1. **Experiment 1**
   Start Location: **C8**
   Offest: **6**
   Branching Factors: 1, 64, 4, 2, 5, 3, 7, 2
   Estimated nodes: 1, 64, 256, 512, 2560, 7680, 53760, 107520

2. **Experiment 2**
   Start Location: **A4**
   Offest: **6**
   Branching Factors: 1, 64, 4, 5, 7, 4
   Estimated nodes: 1, 64, 256, 1280, 8960, 35840

3. **Experiment 3**
   Start Location: **E3**
   Offest: **6**
   Branching Factors: 1, 64, 8, 7, 7, 6, 4, 1, 2, 2, 2, 1, 3, 5, 2, 1, 2, 4, 3, 2
   Estimated nodes: 1, 64, 512, 3584, 25088, 150528, 602112, 602112, 1204224, 2408448, 4816896, 4816896, 14450688, 72253440, 144506880, 144506880, 289013760, 1156055040, 3468165120, 6936330240

4. **Experiment 4**
   Start Location: **E3**
   Offest: **6**
   Branching Factors: 1, 64, 8, 7, 5, 4, 4, 3, 4, 1, 4, 5, 4, 1, 1, 1, 3, 3
   Estimated nodes: 1, 64, 512, 3584, 17920, 71680, 286720, 860160, 3440640, 3440640, 13762560, 68812800, 275251200, 275251200, 275251200, 275251200, 825753600, 2477260800

Aveage Expected Nodes:
1, 64, 384, 2240, 13632, 66432, 235648, 392448, 1161216, 1462272,4644864 ,18407424, 72425472, 86876160, 104939520, 104939520, 278691840, 908328960, 867041280, 1734082560

Fun Scale: 10 out of 10!