**Curb the Epidemic Worksheet**

1. Individuals chosen to vaccinate: \_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_
2. Briefly explain the reason(s) for choosing these individuals:
3. Simulation Results

|  |  |
| --- | --- |
| **Simulation #** | **# of individuals infected** |
| **1** |  |
| **2** |  |
| **3** |  |
| **4** |  |
| **5** |  |
| **6** |  |
| **7** |  |
| **8** |  |
| **9** |  |
| **10** |  |

1. Average number of infected individuals: \_\_\_\_\_\_\_\_\_\_\_\_

Website: ***Spread of Disease on a Social Network*** at <http://www.cis.jhu.edu/~goutsias/teachingApplet/webapp.html>

**Extra Credit**

1. Which individuals would be leasteffective to vaccinate (that is, to maximize the number of individuals infected)? Please explain your choice.
2. With this least effective choice of vaccination, perform 10 simulations and compute the average number of infected individuals.

|  |  |
| --- | --- |
| **Simulation #** | **# of individuals infected** |
| **1** |  |
| **2** |  |
| **3** |  |
| **4** |  |
| **5** |  |
| **6** |  |
| **7** |  |
| **8** |  |
| **9** |  |
| **10** |  |

1. Average number of infected individuals: \_\_\_\_\_\_\_\_\_\_\_\_
2. Is this number larger than the one computed previously for your vaccination strategy that was attempting to minimize the number of infected individuals?