

DocuSign Pre-Phone Screen Coding Problem #2

DocuSign has data centers in Seattle, Chicago and Dallas. We have a BLOB (Binary Large Object) service running on 3 servers in each data center (Sea-1, Sea-2, Sea-3, Chi-1, Chi-2, Chi-3, Dal-1, Dal-2, Dal-3). Write a program in any programming language that takes a data center name as an argument and outputs the names of all 9 servers in the most efficient order to write a new BLOB.

- The BLOB should be written to the 3 local servers first, then the 3 next nearest data centers, then the last 3 servers
- The list of the 3 servers in the same data center should be shuffled so it's not always starting with the same server

```
public class WriteBlobSequence
{
    public static void main(String arg[])
    {
        String dataCenterName = arg[0]; // "Seattle", "Chicago", or "Dallas"
        System.out.println("Sea-1 Sea-2 Sea-3 Dal-1 Dal-2 Dal-3 Chi-1 Chi-2 Chi-3");
    }
}

..
```

So running this 3 times might output:

```
% java ChooseServer Seattle
Sea-2 Sea-1 Sea-3 Dal-1 Dal-3 Dal-2 Chi-2 Chi-3 Chi-1
% java ChooseServer Seattle
Sea-1 Sea-3 Sea-2 Dal-3 Dal-2 Dal-1 Chi-1 Chi-2 Chi-3
% java ChooseServer Seattle
Sea-3 Sea-1 Sea-2 Dal-1 Dal-2 Dal-3 Chi-1 Chi-3 Chi-2
```

Notes:

- 1) I don't care about comments
- 2) I DO care about good variable names and method names
- 3) I don't care that it's elegant or efficient
- 4) I DO care that it's easy to read and understand