

Algorithm to hash user IDs

Source:

<http://www.tech-archive.net/Archive/DotNet/microsoft.public.dotnet.languages.csharp/2007-11/msg02316.html>

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<Sorry this question is not tied to C#, but I could not find a good forum that tackles such questions>

Hi

I am trying to come up with a good hashing function for user IDs in my app. The user IDs are always of the form 0,1,2,3.....

I don't know the total number of users beforehand. I am essentially trying to write the following method:

```
// Given a Hash Percent, return 'true' if user ID lies between 0 and  
that, 'false' otherwise.  
bool IsInRange(int userId, double hashPercent);
```

So, if 0,1,2,3..199 are fed to this function with hashPercent as 10.5, the function should return 'true' for 21 users.

I tried out doing some math on the numbers using mod but it did not work. is there an easy way to do this?

Thanks
Bruce

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