Subject: Re: Fast way to find the same value in an array
Posted by greg michael on Sun, 09 Jul 2006 15:10:36 GMT
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Instead of comparing each point with every other, suppose you do this:

- cut up your space into NxNxN subspaces (N=10, say)
- sort your points into each subspace
- for each subspace, consider the problem again, but including the neighbouring subspaces. So now you have 27.N^3 easier sub-problems.
- either solve these directly (now 27.1e7/N^3 ~ 250,000 points) or better, if you wrote the function well, feed these sub-problems back in for a recursive solution.

regards,
Greg