Subject: Vector of Vector

Posted by forlano on Wed, 25 Oct 2006 20:09:47 GMT

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Hi,

I needed to substitute some structure build in C with pointers and I've recognised that it is equivalent to a container of Vector of Vector of the beautifull NTL library (U++ Core). I have not seen any example on this specific structure on the tutorials, so for me was not evident the syntax. After many trials ed errors the following code run with success. It populated the container, print it and produce the sort of a vector. What is very nice, for me, is that the structure became a matrix the which element can be accessed by index without stupid iterators. Marvelous! I do not know if there are other more direct way to achieve the same purpose. If yes I'm interested in it. Perhaps this topic can be matter of a new tutorial on the NTL that merit to be known more in deep.

Luigi #include <Core/Core.h> CONSOLE APP MAIN { FileOut out("C:\\upp\\out\\MSC8\\out.txt"); //set your dir and file name Vector< Vector<int> > array; // vector of vector Vector<int> vec: //create a vector and add it to the array vec.Add(80); vec.Add(20); vec.Add(30): vec.Add(50); vec.Add(90); array.Add(vec); //create another vector and add it to the array vec.Clear(); vec.Add(100); vec.Add(200); vec.Add(300); array.Add(vec); //create a vector and add it to the array vec.Clear(); vec.Add(1000); vec.Add(2000); vec.Add(3000); vec.Add(3000);

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array.Add(vec);\\ for(int i = 0; i < array.GetCount(); i++) \\ \{\\ for(int j = 0; j < array[i].GetCount(); j++) out.Put( AsString(array[i][j]) + ", "); \\ out.Put("\n"); \}\\ out.Put("\n\n\n");\\ // sort the first vector of the array \\ Sort(array[0]);\\ for(int i = 0; i < array.GetCount(); i++) \\ \{\\ for(int j = 0; j < array[i].GetCount(); j++) out.Put( AsString(array[i][j]) + ", "); \\ out.Put("\n");\\ \}\\ out.Close();\\ \}
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