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**		**
**	extra3.cc listing	**
**		**

#include <iostream>		
using namespace std;		
/*		
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CS115-J0E1		
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Extra Credit #3		
This program will count the amount of "special numbers" between		
000000 - 999999. "Special number" is defined as a number where all		
digits in the number are unique.		
*/		
int main(){		
int counter = 0; //accumulator - counts # special numbers		
//create a six digit odometer		
for (int a = 0; a < 10; a++)		
for (int b = 0; b < 10; b++)		
for (int c = 0; c < 10; c++)		
for (int d = 0; d < 10; d++)		
for (int e = 0; e < 10; e++)		
for (int f = 0; f < 10; f++)		
if ((a != b) && (a != c) && (a != d) && (a != e) &&		
(a != f) && (b != c) && (b != d) && (b != e) &&		
(b != f) && (c != d) && (c != e) && (c != f) &&		
(d != e) && (d != f) && (e != f))		
counter++;		
else		
;		
cout << "There are " << counter		
<< " special numbers between 000000 and 999999." << endl;		
}		

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**		**
**	extra3.cc compilation	**
**		**

c++ compilation succeeded		

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extra3.cc execution - unstructured testcase 1 [#1]

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There are 151200 special numbers between 000000 and 999999.