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## CSTools Listing and Executions

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*****
*****
**                                     **
**                               pgml.cc listing                               **
**                                     **
*****
*****
#include <iostream>
using namespace std;
/*
  Steven Liu
  CS115-J0E1
  Fall, 2010
  Program 1

1)Program description:
  This program will request a set of numbers representing the quantity
  (in gallons, quarts, and pints) of different colored paint (red,
  green, yellow, and blue) sold by the user. The program will then
  redisplay the various types of paint sold, the sum of the amount of
  paint sold, and the total cost of the paint sold - including any unit
  specific discounts given.

2)Precondition:
  i.      User will enter number of gallons of red paint desired, called
  redgallons, which is a whole number between 0 and 100.
  ii.     User will enter number of quarts of red paint desired, called
  redquarts, which is a whole number between 0 and 100.
  iii.    User will enter number of pints of red paint desired, called
  redpints, which is a whole number between 0 and 100.
  iv.     User will enter number of gallons of green paint desired,
  called greengallons, which is a whole number between 0 and 100.
  v.      User will enter number of quarts of green paint desired,
  called greenquarts, which is a whole number between 0 and 100.
  vi.     User will enter number of pints of green paint desired, called
  greenpints, which is a whole number between 0 and 100.
  vii.    User will enter number of gallons of yellow paint desired,
  called yellowgallons, which is a whole number between 0 and 100.
  viii.   User will enter number of quarts of yellow paint desired,
  called yellowquarts, which is a whole number between 0 and 100.
  ix.     User will enter number of pints of yellow paint desired,
  called yellowpints, which is a whole number between 0 and 100.
  x.      User will enter number of gallons of blue paint desired,
  called bluegallons, which is a whole number between 0 and 100.
  xi.     User will enter number of quarts of blue paint desired, called
  bluequarts, which is a whole number between 0 and 100.
  xii.    User will enter number of pints of blue paint desired, called
  bluepints, which is a whole number between 0 and 100.
  xiii.   Total amount of paint sold implied by the above preconditions
  does not exceed 400 gallons, 400 quarts, and 400 pints (must
  be less than or equal to 550 gallons of paint total).

3)Postcondition:
  i.      Program will redisplay the gallons, quarts, and pints of red
  paint sold. Following the same boundaries of the preconditions.
  ii.     Program will redisplay the gallons, quarts, and pints of green
  paint sold. Following the same boundaries of the preconditions.
  iii.    Program will redisplay the gallons, quarts, and pints of yellow
  paint sold. Following the same boundaries of the preconditions.
  iv.     Program will redisplay the gallons, quarts, and pints of blue
  paint sold. Following the same boundaries of the preconditions.
  v.      Display the sum of all paint sold separated into gallons
  (called totalgallons, a whole number between 0-550), quarts
  (called totalquarts, a whole number between 0-3), and pints
  (called totalpints, a whole number between 0-1).
  vi.     Display the total cost of the paint sold in dollars, called
  finalcost, which is a whole number between 0-9350.

*/
int main(){

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```

//Variable declaration and definition
int redgallons;      //user input: # gallons of red paint
int redquarts;       //user input: # quarts of red paint
int redpints;        //user input: # pints of red paint
int greengallons;    //user input: # gallons of green paint
int greenquarts;     //user input: # quarts of green paint
int greenpints;      //user input: # pints of green paint
int yellowgallons;   //user input: # gallons of yellow paint
int yellowquarts;    //user input: # quarts of yellow paint
int yellowpints;     //user input: # pints of yellow paint
int bluegallons;     //user input: # gallons of blue paint
int bluequarts;      //user input: # quarts of blue paint
int bluepints;       //user input: # pints of blue paint
int justpints;       //calc: total amount of paint sold in pints
int quartspints;     //calc: paint left over after removing gallons
int totalgallons;    //calc: gallon value of total paint sold
int totalquarts;     //calc: quart value of total paint sold
int totalpints;      //calc: pint value of total paint sold
int finalcost;       //calc: cost of total paint sold with discounts

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//Get amount of individual paint desired from the user
cout << endl << "Acme Paint Pricing Program, version 1.0" << endl
    << "(c) Steven Liu, 2010" << endl << endl;
cout << "Enter the number of gallon containers of red paint sold: ";
cin >> redgallons;
cout << "Enter the number of quart containers of red paint sold: ";
cin >> redquarts;
cout << "Enter the number of pint containers of red paint sold: ";
cin >> redpints;
cout << endl;
cout << "Enter the number of gallon containers of green paint sold: ";
cin >> greengallons;
cout << "Enter the number of quart containers of green paint sold: ";
cin >> greenquarts;
cout << "Enter the number of pint containers of green paint sold: ";
cin >> greenpints;
cout << endl;
cout << "Enter the number of gallon containers of yellow paint sold: ";
cin >> yellowgallons;
cout << "Enter the number of quart containers of yellow paint sold: ";
cin >> yellowquarts;
cout << "Enter the number of pint containers of yellow paint sold: ";
cin >> yellowpints;
cout << endl;
cout << "Enter the number of gallon containers of blue paint sold: ";
cin >> bluegallons;
cout << "Enter the number of quart containers of blue paint sold: ";
cin >> bluequarts;
cout << "Enter the number of pint containers of blue paint sold: ";
cin >> bluepints;
cout << endl;

```

```

//Calculate the total amount of paint sold and its final cost
justpints = (redgallons * 8) + (greengallons * 8) + (yellowgallons * 8)
    + (bluegallons * 8) + (redquarts * 2) + (greenquarts * 2)
    + (yellowquarts * 2) + (bluequarts * 2) + redpints
    + greenpints + yellowpints + bluepints;
totalgallons = justpints / 8;
quartspints = justpints % 8;
totalquarts = quartspints / 2;
totalpints = quartspints % 2;
finalcost = (totalgallons * 17) + (totalquarts * 9) + (totalpints * 5);

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//Display the total paint sold and the final cost
cout << "Amount of red paint sold: " << redgallons << " gallon(s), "

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	<pre> &lt;&lt; redquarts &lt;&lt; " quart(s), " &lt;&lt; redpints &lt;&lt; " and pint(s)" &lt;&lt; endl; cout &lt;&lt; "Amount of green paint sold: " &lt;&lt; greengallons &lt;&lt; " gallon(s), " &lt;&lt; greenquarts &lt;&lt; " quart(s), " &lt;&lt; greenpints &lt;&lt; " and pint(s)" &lt;&lt; endl; cout &lt;&lt; "Amount of yellow paint sold: " &lt;&lt; yellowgallons &lt;&lt; " gallon(s), " &lt;&lt; yellowquarts &lt;&lt; " quart(s), " &lt;&lt; yellowpints &lt;&lt; " and pint(s)" &lt;&lt; endl; cout &lt;&lt; "Amount of blue paint sold: " &lt;&lt; bluegallons &lt;&lt; " gallon(s), " &lt;&lt; bluequarts &lt;&lt; " quart(s), " &lt;&lt; bluepints &lt;&lt; " and pint(s)" &lt;&lt; endl &lt;&lt; endl; cout &lt;&lt; "Total amount of paint sold: " &lt;&lt; totalgallons &lt;&lt; " gallon(s), " &lt;&lt; totalquarts &lt;&lt; " quart(s), " &lt;&lt; totalpints &lt;&lt; " and pint(s)" &lt;&lt; endl &lt;&lt; endl; cout &lt;&lt; "Total cost: \$" &lt;&lt; finalcost &lt;&lt; endl &lt;&lt; endl; cout &lt;&lt; "Finishing Acme Paint Pricing Program, version 1.0" &lt;&lt; endl &lt;&lt; endl;  } </pre>	

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	<pre> ***** ***** ** **                                pgml.cc compilation ** ***** ***** c++ compilation succeeded </pre>	

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*****		
**		
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**		
*****		
*****		
Acme Paint Pricing Program, version 1.0		
(c) Steven Liu, 2010		
Enter the number of gallon containers of red paint sold:	1	
Enter the number of quart containers of red paint sold:	3	
Enter the number of pint containers of red paint sold:	1	
Enter the number of gallon containers of green paint sold:	3	
Enter the number of quart containers of green paint sold:	1	
Enter the number of pint containers of green paint sold:	0	
Enter the number of gallon containers of yellow paint sold:	4	
Enter the number of quart containers of yellow paint sold:	0	
Enter the number of pint containers of yellow paint sold:	0	
Enter the number of gallon containers of blue paint sold:	2	
Enter the number of quart containers of blue paint sold:	2	
Enter the number of pint containers of blue paint sold:	1	
Amount of red paint sold:	1 gallon(s), 3 quart(s), 1 and pint(s)	
Amount of green paint sold:	3 gallon(s), 1 quart(s), 0 and pint(s)	
Amount of yellow paint sold:	4 gallon(s), 0 quart(s), 0 and pint(s)	
Amount of blue paint sold:	2 gallon(s), 2 quart(s), 1 and pint(s)	
Total amount of paint sold:	11 gallon(s), 3 quart(s), 0 and pint(s)	
Total cost:	\$214	
Finishing Acme Paint Pricing Program, version 1.0		

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*****		
**		
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**		
*****		
*****		
Acme Paint Pricing Program, version 1.0		
(c) Steven Liu, 2010		
Enter the number of gallon containers of red paint sold:	1	
Enter the number of quart containers of red paint sold:	3	
Enter the number of pint containers of red paint sold:	1	
Enter the number of gallon containers of green paint sold:	1	
Enter the number of quart containers of green paint sold:	3	
Enter the number of pint containers of green paint sold:	1	
Enter the number of gallon containers of yellow paint sold:	1	
Enter the number of quart containers of yellow paint sold:	3	
Enter the number of pint containers of yellow paint sold:	1	
Enter the number of gallon containers of blue paint sold:	1	
Enter the number of quart containers of blue paint sold:	3	
Enter the number of pint containers of blue paint sold:	1	
Amount of red paint sold:	1 gallon(s), 3 quart(s), 1 and pint(s)	
Amount of green paint sold:	1 gallon(s), 3 quart(s), 1 and pint(s)	
Amount of yellow paint sold:	1 gallon(s), 3 quart(s), 1 and pint(s)	
Amount of blue paint sold:	1 gallon(s), 3 quart(s), 1 and pint(s)	
Total amount of paint sold:	7 gallon(s), 2 quart(s), 0 and pint(s)	
Total cost:	\$137	
Finishing Acme Paint Pricing Program, version 1.0		

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*****		
*****		
**		**
**	pgml.cc execution - required testcase #3	**
**		**
*****		
*****		
Acme Paint Pricing Program, version 1.0		
(c) Steven Liu, 2010		
Enter the number of gallon containers of red paint sold:	4	
Enter the number of quart containers of red paint sold:	7	
Enter the number of pint containers of red paint sold:	5	
Enter the number of gallon containers of green paint sold:	3	
Enter the number of quart containers of green paint sold:	6	
Enter the number of pint containers of green paint sold:	3	
Enter the number of gallon containers of yellow paint sold:	5	
Enter the number of quart containers of yellow paint sold:	11	
Enter the number of pint containers of yellow paint sold:	6	
Enter the number of gallon containers of blue paint sold:	2	
Enter the number of quart containers of blue paint sold:	9	
Enter the number of pint containers of blue paint sold:	17	
Amount of red paint sold:	4 gallon(s), 7 quart(s), 5 and pint(s)	
Amount of green paint sold:	3 gallon(s), 6 quart(s), 3 and pint(s)	
Amount of yellow paint sold:	5 gallon(s), 11 quart(s), 6 and pint(s)	
Amount of blue paint sold:	2 gallon(s), 9 quart(s), 17 and pint(s)	
Total amount of paint sold:	26 gallon(s), 0 quart(s), 1 and pint(s)	
Total cost:	\$447	
Finishing Acme Paint Pricing Program, version 1.0		

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*****		
*****		
**		**
**	pgml.cc execution - required testcase #4	**
**		**
*****		
*****		
Acme Paint Pricing Program, version 1.0		
(c) Steven Liu, 2010		
Enter the number of gallon containers of red paint sold:	0	
Enter the number of quart containers of red paint sold:	0	
Enter the number of pint containers of red paint sold:	0	
Enter the number of gallon containers of green paint sold:	0	
Enter the number of quart containers of green paint sold:	0	
Enter the number of pint containers of green paint sold:	0	
Enter the number of gallon containers of yellow paint sold:	0	
Enter the number of quart containers of yellow paint sold:	0	
Enter the number of pint containers of yellow paint sold:	0	
Enter the number of gallon containers of blue paint sold:	0	
Enter the number of quart containers of blue paint sold:	0	
Enter the number of pint containers of blue paint sold:	0	
Amount of red paint sold:	0 gallon(s), 0 quart(s), 0 and pint(s)	
Amount of green paint sold:	0 gallon(s), 0 quart(s), 0 and pint(s)	
Amount of yellow paint sold:	0 gallon(s), 0 quart(s), 0 and pint(s)	
Amount of blue paint sold:	0 gallon(s), 0 quart(s), 0 and pint(s)	
Total amount of paint sold:	0 gallon(s), 0 quart(s), 0 and pint(s)	
Total cost:	\$0	
Finishing Acme Paint Pricing Program, version 1.0		

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*****		
**		
** pgml.cc execution - proposed normal testcase 1 [#1]		
**		
*****		
Acme Paint Pricing Program, version 1.0		
(c) Steven Liu, 2010		
Enter the number of gallon containers of red paint sold:	1	
Enter the number of quart containers of red paint sold:	1	
Enter the number of pint containers of red paint sold:	1	
Enter the number of gallon containers of green paint sold:	1	
Enter the number of quart containers of green paint sold:	1	
Enter the number of pint containers of green paint sold:	1	
Enter the number of gallon containers of yellow paint sold:	1	
Enter the number of quart containers of yellow paint sold:	1	
Enter the number of pint containers of yellow paint sold:	1	
Enter the number of gallon containers of blue paint sold:	1	
Enter the number of quart containers of blue paint sold:	1	
Enter the number of pint containers of blue paint sold:	1	
Amount of red paint sold:	1 gallon(s), 1 quart(s), 1 and pint(s)	
Amount of green paint sold:	1 gallon(s), 1 quart(s), 1 and pint(s)	
Amount of yellow paint sold:	1 gallon(s), 1 quart(s), 1 and pint(s)	
Amount of blue paint sold:	1 gallon(s), 1 quart(s), 1 and pint(s)	
Total amount of paint sold:	5 gallon(s), 2 quart(s), 0 and pint(s)	
Total cost:	\$103	
Finishing Acme Paint Pricing Program, version 1.0		

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*****		
**		
** pgml.cc execution - proposed normal testcase 2 [#2]		
**		
*****		
Acme Paint Pricing Program, version 1.0		
(c) Steven Liu, 2010		
Enter the number of gallon containers of red paint sold:	10	
Enter the number of quart containers of red paint sold:	2	
Enter the number of pint containers of red paint sold:	1	
Enter the number of gallon containers of green paint sold:	10	
Enter the number of quart containers of green paint sold:	1	
Enter the number of pint containers of green paint sold:	1	
Enter the number of gallon containers of yellow paint sold:	10	
Enter the number of quart containers of yellow paint sold:	2	
Enter the number of pint containers of yellow paint sold:	1	
Enter the number of gallon containers of blue paint sold:	10	
Enter the number of quart containers of blue paint sold:	1	
Enter the number of pint containers of blue paint sold:	1	
Amount of red paint sold:	10 gallon(s), 2 quart(s), 1 and pint(s)	
Amount of green paint sold:	10 gallon(s), 1 quart(s), 1 and pint(s)	
Amount of yellow paint sold:	10 gallon(s), 2 quart(s), 1 and pint(s)	
Amount of blue paint sold:	10 gallon(s), 1 quart(s), 1 and pint(s)	
Total amount of paint sold:	42 gallon(s), 0 quart(s), 0 and pint(s)	
Total cost:	\$714	
Finishing Acme Paint Pricing Program, version 1.0		

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*****	*****	*****
**	pgml.cc execution - proposed normal testcase 3 [#3]	**
**		**
*****	*****	*****
Acme Paint Pricing Program, version 1.0 (c) Steven Liu, 2010		
Enter the number of gallon containers of red paint sold:	32	
Enter the number of quart containers of red paint sold:	32	
Enter the number of pint containers of red paint sold:	47	
Enter the number of gallon containers of green paint sold:	46	
Enter the number of quart containers of green paint sold:	23	
Enter the number of pint containers of green paint sold:	5	
Enter the number of gallon containers of yellow paint sold:	23	
Enter the number of quart containers of yellow paint sold:	11	
Enter the number of pint containers of yellow paint sold:	21	
Enter the number of gallon containers of blue paint sold:	88	
Enter the number of quart containers of blue paint sold:	58	
Enter the number of pint containers of blue paint sold:	68	
Amount of red paint sold:	32 gallon(s), 32 quart(s), 47 and pint(s)	
Amount of green paint sold:	46 gallon(s), 23 quart(s), 5 and pint(s)	
Amount of yellow paint sold:	23 gallon(s), 11 quart(s), 21 and pint(s)	
Amount of blue paint sold:	88 gallon(s), 58 quart(s), 68 and pint(s)	
Total amount of paint sold:	237 gallon(s), 2 quart(s), 1 and pint(s)	
Total cost:	\$4052	
Finishing Acme Paint Pricing Program, version 1.0		

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*****	*****	*****
**	pgml.cc execution - proposed normal testcase 4 [#4]	**
**		**
*****	*****	*****
Acme Paint Pricing Program, version 1.0 (c) Steven Liu, 2010		
Enter the number of gallon containers of red paint sold:	99	
Enter the number of quart containers of red paint sold:	2	
Enter the number of pint containers of red paint sold:	1	
Enter the number of gallon containers of green paint sold:	99	
Enter the number of quart containers of green paint sold:	2	
Enter the number of pint containers of green paint sold:	1	
Enter the number of gallon containers of yellow paint sold:	99	
Enter the number of quart containers of yellow paint sold:	2	
Enter the number of pint containers of yellow paint sold:	1	
Enter the number of gallon containers of blue paint sold:	99	
Enter the number of quart containers of blue paint sold:	2	
Enter the number of pint containers of blue paint sold:	1	
Amount of red paint sold:	99 gallon(s), 2 quart(s), 1 and pint(s)	
Amount of green paint sold:	99 gallon(s), 2 quart(s), 1 and pint(s)	
Amount of yellow paint sold:	99 gallon(s), 2 quart(s), 1 and pint(s)	
Amount of blue paint sold:	99 gallon(s), 2 quart(s), 1 and pint(s)	
Total amount of paint sold:	398 gallon(s), 2 quart(s), 0 and pint(s)	
Total cost:	\$6784	
Finishing Acme Paint Pricing Program, version 1.0		

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*****		
**		
** pgml.cc execution - proposed normal testcase 5 [#5]		
**		
*****		
Acme Paint Pricing Program, version 1.0		
(c) Steven Liu, 2010		
Enter the number of gallon containers of red paint sold:	99	
Enter the number of quart containers of red paint sold:	99	
Enter the number of pint containers of red paint sold:	99	
Enter the number of gallon containers of green paint sold:	99	
Enter the number of quart containers of green paint sold:	99	
Enter the number of pint containers of green paint sold:	99	
Enter the number of gallon containers of yellow paint sold:	99	
Enter the number of quart containers of yellow paint sold:	99	
Enter the number of pint containers of yellow paint sold:	99	
Enter the number of gallon containers of blue paint sold:	99	
Enter the number of quart containers of blue paint sold:	99	
Enter the number of pint containers of blue paint sold:	99	
Amount of red paint sold:	99 gallon(s), 99 quart(s), 99 and pint(s)	
Amount of green paint sold:	99 gallon(s), 99 quart(s), 99 and pint(s)	
Amount of yellow paint sold:	99 gallon(s), 99 quart(s), 99 and pint(s)	
Amount of blue paint sold:	99 gallon(s), 99 quart(s), 99 and pint(s)	
Total amount of paint sold:	544 gallon(s), 2 quart(s), 0 and pint(s)	
Total cost:	\$9266	
Finishing Acme Paint Pricing Program, version 1.0		

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*****		
**		
** pgml.cc execution - proposed normal testcase 6 [#6]		
**		
*****		
Acme Paint Pricing Program, version 1.0		
(c) Steven Liu, 2010		
Enter the number of gallon containers of red paint sold:	12	
Enter the number of quart containers of red paint sold:	32	
Enter the number of pint containers of red paint sold:	44	
Enter the number of gallon containers of green paint sold:	23	
Enter the number of quart containers of green paint sold:	83	
Enter the number of pint containers of green paint sold:	23	
Enter the number of gallon containers of yellow paint sold:	32	
Enter the number of quart containers of yellow paint sold:	2	
Enter the number of pint containers of yellow paint sold:	78	
Enter the number of gallon containers of blue paint sold:	23	
Enter the number of quart containers of blue paint sold:	44	
Enter the number of pint containers of blue paint sold:	73^H4	
Amount of red paint sold:	12 gallon(s), 32 quart(s), 44 and pint(s)	
Amount of green paint sold:	23 gallon(s), 83 quart(s), 23 and pint(s)	
Amount of yellow paint sold:	32 gallon(s), 2 quart(s), 78 and pint(s)	
Amount of blue paint sold:	23 gallon(s), 44 quart(s), 74 and pint(s)	
Total amount of paint sold:	157 gallon(s), 2 quart(s), 1 and pint(s)	
Total cost:	\$2692	
Finishing Acme Paint Pricing Program, version 1.0		

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*****		
**		
** pgml.cc execution - proposed boundary testcase 1 [#1]		
**		
*****		
Acme Paint Pricing Program, version 1.0		
(c) Steven Liu, 2010		
Enter the number of gallon containers of red paint sold:	0	
Enter the number of quart containers of red paint sold:	0	
Enter the number of pint containers of red paint sold:	0	
Enter the number of gallon containers of green paint sold:	0	
Enter the number of quart containers of green paint sold:	0	
Enter the number of pint containers of green paint sold:	0	
Enter the number of gallon containers of yellow paint sold:	0	
Enter the number of quart containers of yellow paint sold:	0	
Enter the number of pint containers of yellow paint sold:	0	
Enter the number of gallon containers of blue paint sold:	0	
Enter the number of quart containers of blue paint sold:	0	
Enter the number of pint containers of blue paint sold:	0	
Amount of red paint sold:	0 gallon(s), 0 quart(s), 0 and pint(s)	
Amount of green paint sold:	0 gallon(s), 0 quart(s), 0 and pint(s)	
Amount of yellow paint sold:	0 gallon(s), 0 quart(s), 0 and pint(s)	
Amount of blue paint sold:	0 gallon(s), 0 quart(s), 0 and pint(s)	
Total amount of paint sold:	0 gallon(s), 0 quart(s), 0 and pint(s)	
Total cost:	\$0	
Finishing Acme Paint Pricing Program, version 1.0		

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*****		
**		
** pgml.cc execution - proposed boundary testcase 2 [#2]		
**		
*****		
Acme Paint Pricing Program, version 1.0		
(c) Steven Liu, 2010		
Enter the number of gallon containers of red paint sold:	100	
Enter the number of quart containers of red paint sold:	3	
Enter the number of pint containers of red paint sold:	1	
Enter the number of gallon containers of green paint sold:	100	
Enter the number of quart containers of green paint sold:	3	
Enter the number of pint containers of green paint sold:	1	
Enter the number of gallon containers of yellow paint sold:	100	
Enter the number of quart containers of yellow paint sold:	3	
Enter the number of pint containers of yellow paint sold:	1	
Enter the number of gallon containers of blue paint sold:	100	
Enter the number of quart containers of blue paint sold:	3	
Enter the number of pint containers of blue paint sold:	1	
Amount of red paint sold:	100 gallon(s), 3 quart(s), 1 and pint(s)	
Amount of green paint sold:	100 gallon(s), 3 quart(s), 1 and pint(s)	
Amount of yellow paint sold:	100 gallon(s), 3 quart(s), 1 and pint(s)	
Amount of blue paint sold:	100 gallon(s), 3 quart(s), 1 and pint(s)	
Total amount of paint sold:	403 gallon(s), 2 quart(s), 0 and pint(s)	
Total cost:	\$6869	
Finishing Acme Paint Pricing Program, version 1.0		



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*****		
**		
** pgml.cc execution - proposed boundary testcase 3 [#3]		
**		
*****		
Acme Paint Pricing Program, version 1.0		
(c) Steven Liu, 2010		
Enter the number of gallon containers of red paint sold:	100	
Enter the number of quart containers of red paint sold:	0	
Enter the number of pint containers of red paint sold:	0	
Enter the number of gallon containers of green paint sold:	0	
Enter the number of quart containers of green paint sold:	0	
Enter the number of pint containers of green paint sold:	0	
Enter the number of gallon containers of yellow paint sold:	100	
Enter the number of quart containers of yellow paint sold:	0	
Enter the number of pint containers of yellow paint sold:	0	
Enter the number of gallon containers of blue paint sold:	0	
Enter the number of quart containers of blue paint sold:	0	
Enter the number of pint containers of blue paint sold:	0	
Amount of red paint sold:	100 gallon(s), 0 quart(s), 0 and pint(s)	
Amount of green paint sold:	0 gallon(s), 0 quart(s), 0 and pint(s)	
Amount of yellow paint sold:	100 gallon(s), 0 quart(s), 0 and pint(s)	
Amount of blue paint sold:	0 gallon(s), 0 quart(s), 0 and pint(s)	
Total amount of paint sold:	200 gallon(s), 0 quart(s), 0 and pint(s)	
Total cost:	\$3400	
Finishing Acme Paint Pricing Program, version 1.0		

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*****		
**		
** pgml.cc execution - proposed boundary testcase 4 [#4]		
**		
*****		
Acme Paint Pricing Program, version 1.0		
(c) Steven Liu, 2010		
Enter the number of gallon containers of red paint sold:	0	
Enter the number of quart containers of red paint sold:	1	
Enter the number of pint containers of red paint sold:	0	
Enter the number of gallon containers of green paint sold:	0	
Enter the number of quart containers of green paint sold:	1	
Enter the number of pint containers of green paint sold:	0	
Enter the number of gallon containers of yellow paint sold:	0	
Enter the number of quart containers of yellow paint sold:	1	
Enter the number of pint containers of yellow paint sold:	0	
Enter the number of gallon containers of blue paint sold:	0	
Enter the number of quart containers of blue paint sold:	0	
Enter the number of pint containers of blue paint sold:	0	
Amount of red paint sold:	0 gallon(s), 1 quart(s), 0 and pint(s)	
Amount of green paint sold:	0 gallon(s), 1 quart(s), 0 and pint(s)	
Amount of yellow paint sold:	0 gallon(s), 1 quart(s), 0 and pint(s)	
Amount of blue paint sold:	0 gallon(s), 0 quart(s), 0 and pint(s)	
Total amount of paint sold:	0 gallon(s), 3 quart(s), 0 and pint(s)	
Total cost:	\$27	
Finishing Acme Paint Pricing Program, version 1.0		

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***** ***** ** ** pgml.cc execution - proposed boundary testcase 5 [#5] ** ***** *****		
Acme Paint Pricing Program, version 1.0 (c) Steven Liu, 2010		
Enter the number of gallon containers of red paint sold:	12	
Enter the number of quart containers of red paint sold:	3	
Enter the number of pint containers of red paint sold:	0	
Enter the number of gallon containers of green paint sold:	32	
Enter the number of quart containers of green paint sold:	2	
Enter the number of pint containers of green paint sold:	1	
Enter the number of gallon containers of yellow paint sold:	23	
Enter the number of quart containers of yellow paint sold:	2	
Enter the number of pint containers of yellow paint sold:	1	
Enter the number of gallon containers of blue paint sold:	0	
Enter the number of quart containers of blue paint sold:	0	
Enter the number of pint containers of blue paint sold:	0	
Amount of red paint sold:	12 gallon(s), 3 quart(s), 0 and pint(s)	
Amount of green paint sold:	32 gallon(s), 2 quart(s), 1 and pint(s)	
Amount of yellow paint sold:	23 gallon(s), 2 quart(s), 1 and pint(s)	
Amount of blue paint sold:	0 gallon(s), 0 quart(s), 0 and pint(s)	
Total amount of paint sold: 69 gallon(s), 0 quart(s), 0 and pint(s)		
Total cost: \$1173		
Finishing Acme Paint Pricing Program, version 1.0		

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***** ***** ** ** pgml.cc execution - proposed boundary testcase 6 [#6] ** ***** *****		
Acme Paint Pricing Program, version 1.0 (c) Steven Liu, 2010		
Enter the number of gallon containers of red paint sold:	100	
Enter the number of quart containers of red paint sold:	100	
Enter the number of pint containers of red paint sold:	100	
Enter the number of gallon containers of green paint sold:	100	
Enter the number of quart containers of green paint sold:	100	
Enter the number of pint containers of green paint sold:	100	
Enter the number of gallon containers of yellow paint sold:	100	
Enter the number of quart containers of yellow paint sold:	100	
Enter the number of pint containers of yellow paint sold:	100	
Enter the number of gallon containers of blue paint sold:	100	
Enter the number of quart containers of blue paint sold:	100	
Enter the number of pint containers of blue paint sold:	100	
Amount of red paint sold:	100 gallon(s), 100 quart(s), 100 and pint(s)	
Amount of green paint sold:	100 gallon(s), 100 quart(s), 100 and pint(s)	
Amount of yellow paint sold:	100 gallon(s), 100 quart(s), 100 and pint(s)	
Amount of blue paint sold:	100 gallon(s), 100 quart(s), 100 and pint(s)	
Total amount of paint sold: 550 gallon(s), 0 quart(s), 0 and pint(s)		
Total cost: \$9350		
Finishing Acme Paint Pricing Program, version 1.0		

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*****	*****	*****
**	**	**
**	pgml.cc execution - proposed exception testcase 1 [#1]	**
**	**	**
*****	*****	*****
Acme Paint Pricing Program, version 1.0		
(c) Steven Liu, 2010		
Enter the number of gallon containers of red paint sold:	-12	
Enter the number of quart containers of red paint sold:	1	
Enter the number of pint containers of red paint sold:	1	
Enter the number of gallon containers of green paint sold:	1	
Enter the number of quart containers of green paint sold:	1	
Enter the number of pint containers of green paint sold:	1	
Enter the number of gallon containers of yellow paint sold:	1	
Enter the number of quart containers of yellow paint sold:	1	
Enter the number of pint containers of yellow paint sold:	1	
Enter the number of gallon containers of blue paint sold:	1	
Enter the number of quart containers of blue paint sold:	1	
Enter the number of pint containers of blue paint sold:	1	
Amount of red paint sold:	-12 gallon(s), 1 quart(s), 1 and pint(s)	
Amount of green paint sold:	1 gallon(s), 1 quart(s), 1 and pint(s)	
Amount of yellow paint sold:	1 gallon(s), 1 quart(s), 1 and pint(s)	
Amount of blue paint sold:	1 gallon(s), 1 quart(s), 1 and pint(s)	
Total amount of paint sold:	-7 gallon(s), -2 quart(s), 0 and pint(s)	
Total cost:	\$-137	
Finishing Acme Paint Pricing Program, version 1.0		

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*****	*****	*****
**	**	**
**	pgml.cc execution - proposed exception testcase 2 [#2]	**
**	**	**
*****	*****	*****
Acme Paint Pricing Program, version 1.0		
(c) Steven Liu, 2010		
Enter the number of gallon containers of red paint sold:	12	
Enter the number of quart containers of red paint sold:	1	
Enter the number of pint containers of red paint sold:	12.1	
Enter the number of gallon containers of green paint sold:	Enter the number of	
quart containers of green paint sold:	Enter the number of pint containers of g	
reen paint sold:		
Enter the number of gallon containers of yellow paint sold:	Enter the number of	
quart containers of yellow paint sold:	Enter the number of pint containers of y	
ellow paint sold:		
Enter the number of gallon containers of blue paint sold:	Enter the number of	
quart containers of blue paint sold:	Enter the number of pint containers of b	
lue paint sold:		
Amount of red paint sold:	12 gallon(s), 1 quart(s), 12 and pint(s)	
Amount of green paint sold:	1 gallon(s), 134514574 quart(s), -1073752856 and pi	
nt(s)		
Amount of yellow paint sold:	-1217147880 gallon(s), -1217800432 quart(s), -12178	
00524 and pint(s)		
Amount of blue paint sold:	134522100 gallon(s), 134522420 quart(s), 134514204	
and pint(s)		
Total amount of paint sold:	21166214 gallon(s), 1 quart(s), 0 and pint(s)	
Total cost:	\$359825647	
Finishing Acme Paint Pricing Program, version 1.0		

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*****	*****	*****
**	pgml.cc execution - proposed exception testcase 3 [#3]	**
**		**
*****	*****	*****
Acme Paint Pricing Program, version 1.0 (c) Steven Liu, 2010		
Enter the number of gallon containers of red paint sold:	9	
Enter the number of quart containers of red paint sold:	A	
Enter the number of pint containers of red paint sold:		
Enter the number of gallon containers of green paint sold:	Enter the number of	
quart containers of green paint sold:	quart containers of	
green paint sold:	quart containers of	
Enter the number of gallon containers of yellow paint sold:	Enter the number of	
quart containers of yellow paint sold:	quart containers of	
yellow paint sold:	quart containers of	
Enter the number of gallon containers of blue paint sold:	Enter the number of	
quart containers of blue paint sold:	quart containers of	
blue paint sold:	quart containers of	
Amount of red paint sold:	9 gallon(s), -1073749272 quart(s), 65535 and pint(s)	
Amount of green paint sold:	1 gallon(s), 134514574 quart(s), -1073749288 and pint(s)	
Amount of yellow paint sold:	-1217287144 gallon(s), -1217939696 quart(s), -1217939788 and pint(s)	
Amount of blue paint sold:	134522100 gallon(s), 134522420 quart(s), 134514204 and pint(s)	
Total amount of paint sold:	-247453958 gallon(s), -2 quart(s), -1 and pint(s)	
Total cost:	\$88249987	
Finishing Acme Paint Pricing Program, version 1.0		

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*****	*****	*****
**	pgml.cc execution - proposed exception testcase 4 [#4]	**
**		**
*****	*****	*****
Acme Paint Pricing Program, version 1.0 (c) Steven Liu, 2010		
Enter the number of gallon containers of red paint sold:	1	
Enter the number of quart containers of red paint sold:	1	
Enter the number of pint containers of red paint sold:	1	
Enter the number of gallon containers of green paint sold:	20	
Enter the number of quart containers of green paint sold:	20	
Enter the number of pint containers of green paint sold:	20	
Enter the number of gallon containers of yellow paint sold:	300	
Enter the number of quart containers of yellow paint sold:	300	
Enter the number of pint containers of yellow paint sold:	300	
Enter the number of gallon containers of blue paint sold:	4000	
Enter the number of quart containers of blue paint sold:	4000	
Enter the number of pint containers of blue paint sold:	4000	
Amount of red paint sold:	1 gallon(s), 1 quart(s), 1 and pint(s)	
Amount of green paint sold:	20 gallon(s), 20 quart(s), 20 and pint(s)	
Amount of yellow paint sold:	300 gallon(s), 300 quart(s), 300 and pint(s)	
Amount of blue paint sold:	4000 gallon(s), 4000 quart(s), 4000 and pint(s)	
Total amount of paint sold:	5941 gallon(s), 1 quart(s), 1 and pint(s)	
Total cost:	\$101011	
Finishing Acme Paint Pricing Program, version 1.0		

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*****	*****	*****
**	**	**
**	pgml.cc execution - proposed exception testcase 5 [#5]	**
**	**	**
*****	*****	*****
Acme Paint Pricing Program, version 1.0 (c) Steven Liu, 2010		
Enter the number of gallon containers of red paint sold:	One	
Enter the number of quart containers of red paint sold:	Enter the number of	
pint containers of red paint sold:		
Enter the number of gallon containers of green paint sold:	Enter the number of	
quart containers of green paint sold:	Enter the number of pint containers of g	
reen paint sold:		
Enter the number of gallon containers of yellow paint sold:	Enter the number of	
quart containers of yellow paint sold:	Enter the number of pint containers of y	
ellow paint sold:		
Enter the number of gallon containers of blue paint sold:	Enter the number of	
quart containers of blue paint sold:	Enter the number of pint containers of b	
lue paint sold:		
Amount of red paint sold:	134516413 gallon(s), -1073752056 quart(s), 65535 an	
d pint(s)		
Amount of green paint sold:	1 gallon(s), 134514574 quart(s), -1073752072 and pi	
nt(s)		
Amount of yellow paint sold:	-1217549288 gallon(s), -1218201840 quart(s), -12182	
01932 and pint(s)		
Amount of blue paint sold:	134522100 gallon(s), 134522420 quart(s), 134514204	
and pint(s)		
Total amount of paint sold:	-113299046 gallon(s), -2 quart(s), -1 and pint(s)	
Total cost:	\$-1926083805	
Finishing Acme Paint Pricing Program, version 1.0		

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*****	*****	*****
**	**	**
**	pgml.cc execution - proposed exception testcase 6 [#6]	**
**	**	**
*****	*****	*****
Acme Paint Pricing Program, version 1.0 (c) Steven Liu, 2010		
Enter the number of gallon containers of red paint sold:	AB	
Enter the number of quart containers of red paint sold:	Enter the number of	
pint containers of red paint sold:		
Enter the number of gallon containers of green paint sold:	Enter the number of	
quart containers of green paint sold:	Enter the number of pint containers of g	
reen paint sold:		
Enter the number of gallon containers of yellow paint sold:	Enter the number of	
quart containers of yellow paint sold:	Enter the number of pint containers of y	
ellow paint sold:		
Enter the number of gallon containers of blue paint sold:	Enter the number of	
quart containers of blue paint sold:	Enter the number of pint containers of b	
lue paint sold:		
Amount of red paint sold:	134516413 gallon(s), -1073745816 quart(s), 65535 an	
d pint(s)		
Amount of green paint sold:	1 gallon(s), 134514574 quart(s), -1073745832 and pi	
nt(s)		
Amount of yellow paint sold:	-1216627688 gallon(s), -1217280240 quart(s), -12172	
80332 and pint(s)		
Amount of blue paint sold:	134522100 gallon(s), 134522420 quart(s), 134514204	
and pint(s)		
Total amount of paint sold:	-112029506 gallon(s), -2 quart(s), -1 and pint(s)	
Total cost:	\$-1904501625	
Finishing Acme Paint Pricing Program, version 1.0		