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Task 6

#include <iostream>

using namespace std;

int main() {

cout<<"\t\t\t\t Main Menu\n";

cout<<"\t\t-------------------------------------------------------------------\n";

cout<<"\t\t| SYMBOLS\t| ITEMS \t| WEIGHTS\t | PRICES |\n";

cout<<"\t\t|\t\t|\t\t|\t\t |\t\t |\n";

cout<<"\t\t| C\t\t| Cement \t| 24.9KG to 25.1KG |\t 3$\t |\n";

cout<<"\t\t| S\t\t| Sand \t| 49.5KG to 50.1KG |\t 2$\t |\n";

cout<<"\t\t| G\t\t| Gravel\t| 49.5KG to 50.1KG |\t 2$\t |\n";

cout<<"\t\t-------------------------------------------------------------------\n\n";

int c\_sack, g\_sack, s\_sack;

std::cout << "\t\tEnter the number of cement sacks: ";

std::cin >> c\_sack;

std::cout << "\t\tEnter the number of gravel sacks: ";

std::cin >> g\_sack;

std::cout << "\t\tEnter the number of sand sacks: ";

std::cin >> s\_sack;

int actual\_price = (c\_sack \* 3) + (g\_sack \* 2) + (s\_sack \* 2);

int total\_order = c\_sack + g\_sack + s\_sack;

int rej = 0;

float total\_weight = 0;

for (int count = 1; count <= total\_order; ++count) {

std::cout << std::endl;

char content;

std::cout << "\t\tEnter the content of a sack, C for cement, G for gravel, and S for sand: ";

std::cin >> content;

float weight;

if (content == 'C') {

while (true) {

std::cout << "\t\tEnter weight of cement sack between 24.9KG and 25.1KG: ";

std::cin >> weight;

if (24.9 <= weight && weight <= 25.1) {

break;

} else {

std::cout << "\t\tSack is underweight or overweight" << std::endl;

}

}

} else if (content == 'G' || content == 'S') {

while (true) {

std::cout << "\t\tEnter weight of " << content << " sack between 49.0KG and 50.1KG: ";

std::cin >> weight;

if (49.0 <= weight && weight <= 50.1) {

break;

} else {

std::cout << content << "\t\tsack is underweight or overweight" << std::endl;

}

}

} else {

std::cout << "\t\tThe entered content is incorrect" << std::endl;

}

total\_weight += weight;

}

std::cout << std::endl;

std::cout << "\t\tThe total weight of order is: " << total\_weight << std::endl;

std::cout << "\t\tThe number of sacks rejected are: " << rej << std::endl;

int sp = 0;

int sp\_price = 0;

while (c\_sack >= 1 && g\_sack >= 2 && s\_sack >= 2) {

sp += 1;

c\_sack -= 1;

g\_sack -= 2;

s\_sack -= 2;

}

if (sp >= 1) {

sp\_price = sp \* 10;

std::cout << "\t\tTotal special packs are: " << sp << std::endl;

std::cout << "\t\tPrice of special packs in dollars is: $" << sp\_price << std::endl;

int discount\_price = (c\_sack \* 3) + (g\_sack \* 2) + (s\_sack \* 2) + sp\_price;

std::cout << "\t\tThe actual price of order is: $" << actual\_price << std::endl;

std::cout << "\t\tThe discounted price of order is: $" << discount\_price << std::endl;

int total\_discount = actual\_price - discount\_price;

std::cout << "\t\tTotal discount in order is: $" << total\_discount << std::endl;

} else {

std::cout << "\t\tPrice of regular order in dollars is: $" << actual\_price << std::endl;

}

return 0;

}