// 7d

#include <iostream>

#include <iomanip> // setprecision()

#include <string>

using namespace std;

int main()

{

double monkeys[3][7] = {}; // 2-d array to store detail

double eatenOnDay[7] = {}; // how many food eaten each day by whole

int lowMonkey, highMonkey, lowDay, highDay;

double lowAmount = 100, highAmount = -1;

for(int i = 0; i < 3; i++){ // i = monkey number

for(int j = 0; j < 7; j++){ // j = day number

cout << "Enter the pounds eaten by monkey number " << i + 1 << " on day " << j + 1 << ": ";

cin >> monkeys[i][j];

while(monkeys[i][j] < 0){

cout << "Enter a non-negative amount: ";

cin >> monkeys[i][j];

}

eatenOnDay[j] += monkeys[i][j];

if(monkeys[i][j] < lowAmount){

lowAmount = monkeys[i][j];

lowMonkey = i + 1;

lowDay = j + 1;

}

if(monkeys[i][j] > highAmount){

highAmount = monkeys[i][j];

highMonkey = i + 1;

highDay = j + 1;

}

}

}

for(int i = 0; i < 7; i++){

cout << "\nThe average amount eaten on day " << i + 1 << " is " << fixed << setprecision(2) << eatenOnDay[i] / 3 << " pounds.";

}

cout << "\nMonkey number " << lowMonkey << " ate the least amount of food, " << lowAmount << " pounds, on day " << lowDay

<< "\nMonkey number " << highMonkey << " ate the most amount of food, " << highAmount << " pounds, on day " << highDay;

return 0;

}

/\* Test result

Enter the pounds eaten by monkey number 1 on day 1: 1.5

Enter the pounds eaten by monkey number 1 on day 2: -1.6

Enter a non-negative amount: 1.6

Enter the pounds eaten by monkey number 1 on day 3: 1.7

Enter the pounds eaten by monkey number 1 on day 4: 1.9

Enter the pounds eaten by monkey number 1 on day 5: 1.6

Enter the pounds eaten by monkey number 1 on day 6: 1.7

Enter the pounds eaten by monkey number 1 on day 7: 1.8

Enter the pounds eaten by monkey number 2 on day 1: 0.9

Enter the pounds eaten by monkey number 2 on day 2: 0.9

Enter the pounds eaten by monkey number 2 on day 3: 0.8

Enter the pounds eaten by monkey number 2 on day 4: 0.9

Enter the pounds eaten by monkey number 2 on day 5: 0.7

Enter the pounds eaten by monkey number 2 on day 6: 0.8

Enter the pounds eaten by monkey number 2 on day 7: 0.9

Enter the pounds eaten by monkey number 3 on day 1: 1.3

Enter the pounds eaten by monkey number 3 on day 2: 1.4

Enter the pounds eaten by monkey number 3 on day 3: 1.3

Enter the pounds eaten by monkey number 3 on day 4: 1.4

Enter the pounds eaten by monkey number 3 on day 5: 1.6

Enter the pounds eaten by monkey number 3 on day 6: 1.2

Enter the pounds eaten by monkey number 3 on day 7: 1.4

The average amount eaten on day 1 is 1.23 pounds.

The average amount eaten on day 2 is 1.30 pounds.

The average amount eaten on day 3 is 1.27 pounds.

The average amount eaten on day 4 is 1.40 pounds.

The average amount eaten on day 5 is 1.30 pounds.

The average amount eaten on day 6 is 1.23 pounds.

The average amount eaten on day 7 is 1.37 pounds.

Monkey number 2 ate the least amount of food, 0.70 pounds, on day 5

Monkey number 1 ate the most amount of food, 1.90 pounds, on day 4

\*/