#include <stdio.h>

int movingAvg(int \*ptrArrNumbers, long \*ptrSum, int pos, int len, int nextNum)

{

\*ptrSum = \*ptrSum - ptrArrNumbers[pos] + nextNum;

ptrArrNumbers[pos] = nextNum;

return \*ptrSum / len;

}

int main(int argc, char \*argv[])

{

int sample[] = {50, 10, 20, 18, 20, 100, 18, 10, 13, 500, 50, 40, 10};

int arrNumbers[5] = {0};

int pos = 0;

int newAvg = 0;

long sum = 0;

int len = sizeof(arrNumbers) / sizeof(int);

int count = sizeof(sample) / sizeof(int);

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

newAvg = movingAvg(arrNumbers, &sum, pos, len, sample[i]);

printf("The new average is %d\n", newAvg);

if(sample[0]>newAvg)

printf("its recommanded sell\n");

else

printf("its recommanded to buy\n");

pos++;

if(pos >= len){

pos=0;

}

}

}