Main class

Function main

display message

switch input

case 1:

chooseExhibition(roman);

case 2:

chooseExhibition(warholArt);

case 3:

chooseExhibition(worldWar2);

Function chooseExhibition(Exhibitions exhibitions)

flag = true;

display message

switch input

case 1:

chooseTicket(adult, exhibitions);

case 2:

chooseTicket(child, exhibitions);

case 3:

chooseTicket(student, exhibitions);

case4:

chooseTicket(oap, exhibitions);

case 5:

break

Function chooseTicket(Ticket ticket, Exhibitions exhibitions)

if ticketsNumber = 0

then display message

return

else

display message

count = scanInt(1, 10000);

if ticketsNumber >= count

then requiredMoney = ticketCost \* count;

display message

buy(ticket, exhibitions, requiredMoney);

else

display message

Function buy(Ticket ticket, Exhibitions exhibitions, int requiredMoney)

cash = 0;

display message

if input = 1 then

receiveMoney(requiredMoney);

reduceTickets(count);

reduceSpaces(count);

else

while cash < requiredMoney

display message

cash += scanInt(1, 1000000);

receiveMoney(cash);

if cash > requiredMoney then

change(cash — requiredMoney);

reduceTickets(count);

reduceSpaces(count);

Function scanInt(int min, int max)

sc = new Scanner

s = sc.nextLine();

if s integet then

n = Integer.parseInt(s);

if n >= min && n <= max then

return n

else

display message

return scanInt(min, max);

else

display message

return scanInt(min, max);

Exhibitions class

Function reduceSpaces(int number)

if availableTickets >= number then

display message

availableTickets -= number;

Money class

Function receiveMoney(int money)

cash += money;

Function change(int change)

display message

cash -= change;

Ticket class

Function reduceTickets(int number)

if ticketsNumber >= number then

ticketsNumber -= number;