2[true]: balance:int=0, weight:int = 0;balance:int := 0;b 51[true]: balance:int=\_\_ra\_\_ 47:int, weight:int=0 3[true]: balance:int=0, weight:int=0 balance:int := D;  $weight: int := 0; balance: int := C(incinerator) fee: (int -> int)(D); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := 0; balan$  $weight: int := 0; balance: int := C(incinerator) fee: (int -> int)(D); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := 0$ 4[true]: balance:int=D, weight:int=0 weight:int := 0;balance:int := C(incinerator)fee:(int -> int)(1);weight:int := 0;balance:int := C(garbage\_bin)dep:(int -> int)(1);weight:int := 0;balance:int 5[true]: balance:int=D, weight:int=0 balance:int := C(incinerator)fee:(int -> int)(D);weight:int := 2;balance:int := C(garbage\_bin)dep:(int -> int)(1);weight:int := 0;balance:int := C(garbage\_bin)dep:(int -> int)(2);weight:int := 0;balance:int := C(garbage\_bin)de 6[true]: balance:int=D, weight:int=0 balance:int := C(incinerator)fee:(int -> int)(D);weight:int := 2;balance:int := C(garbage\_bin)dep:(int -> int)(1);weight:int := 0;balance:int := C(garbage\_bin)de 7[true]: balance:int=D, weight:int=0 balance:int := C(incinerator)fee:(int -> int)(D); weight:int := 2;balance:int := C(garbage\_bin)dep:(int -> int)(1);weight:int := 1;balance:int := C(garbage\_bin)dep:(int -> int)(2);weight:int := 0;balance:int := C(banca)save:(int -> int)(balance:int);res:int := thisloop:(-> int)(); H(citizen):C(incinerator).fee::int(D) H(citizen).\_\_return\_ko\_\_::[C(incinerator).]() 8[true]: balance:int=D, weight:int=0 C(incinerator).balance:int := \* ...; weight:int := 2;balance:int := C(garbage\_bin)dep:(int -> int)(1);weight:int := 1;balance:int := C(garbage\_bin)dep:(int -> int)(1);weight:int := 0;balance:int := C(banca)save:(int -> int)(balance:int);res:int := thisloop:(-> int)(); H(citizen).\_\_return\_ok\_\_::int[C(incinerator).](\_\_ra\_\_ 9:int) 11[true]: balance:int=\_\_ra\_\_ 9:int, weight:int=0
weight:int := 2;balance:int := C(garbage\_bin)dep:(int -> int)(1);weight:int := 1;balance:int := C(garbage\_bin)dep:(int -> int)(1);weight:int := 0;balance:int := C(banca)save:(int -> int)(balance:int);res:int := thisloop:(-> int)(); 12[true]: balance:int=\_\_ra\_\_ 9:int, weight:int=0 balance:int := C(garbage\_bin)dep:(int -> int)(1); weight:int := 1; balance:int := C(garbage\_bin)dep:(int -> int)(1); weight:int := 0; balance:int := C(banca)save:(int -> int)(balance:int); res:int := thisloop:(-> int)(); 13[true]: balance:int=\_\_ra\_\_ 9:int, weight:int=2
balance:int := C(garbage\_bin)dep:(int -> int)(1); weight:int := 1; balance:int := C(garbage\_bin)dep:(int -> int)(1); weight:int := 0; balance:int := C(banca)save:(int -> int)(balance:int); res:int := thisloop:(-> int)(); 14[true]: balance:int=\_\_ra\_\_ 9:int, weight:int=2 balance:int := C(garbage\_bin)dep:(int -> int)(1);weight:int := 1;balance:int := C(garbage\_bin)dep:(int -> int)(1);weight:int := 0+balance:int := C(garbage\_bin)dep:(int -> int)(2);weight:int := 0; balance:int := C(banca)save:(int -> int)(balance:int);res:int := thisloop:( -> int)(); (\_\_choice\_\_15:int = 1)  $(\underline{\phantom{a}} choice \underline{\phantom{a}} 15:int = 0)$ 17[true]: balance:int=\_\_ra\_\_ 9:int, weight:int=2
balance:int := C(garbage\_bin)dep:(int -> int)(2);weight:int := 0;
balance:int := C(banca)save:(int -> int)(balance:int);res:int := thisloop:( -> int)(); 16[true]: balance:int=\_\_ra\_\_ 9:int, weight:int=2
balance:int := C(garbage\_bin)dep:(int -> int)(1); weight:int := 1; balance:int := C(garbage\_bin)dep:(int -> int)(1); weight:int := 0;
balance:int := C(banca)save:(int -> int)(balance:int); res:int := thisloop:( -> int)(); 18[true]: balance:int=\_\_ra\_\_ 9:int, weight:int=2 39[true]: balance:int=\_\_ra\_\_ 9:int, weight:int=2 balance:int := C(garbage\_bin)dep:(int -> int)(1); balance:int := C(garbage\_bin)dep:(int -> int)(2); weight:int := 1;balance:int := C(garbage\_bin)dep:(int -> int)(1);weight:int := 0; weight:int := 0; balance:int := C(banca)save:(int -> int)(balance:int);res:int := thisloop:( -> int)(); balance:int := C(banca)save:(int -> int)(balance:int);res:int := thisloop:( -> int)(); return res:int H(citizen):C(garbage\_bin).dep::int(2) H(citizen).\_\_return\_ko\_\_::[C(garbage\_bin).]() H(citizen).\_\_return\_ko\_\_::[C(garbage\_bin).]()\H(citizen):C(garbage\_bin).dep::int(1) 40[true]: balance:int=\_\_ra\_\_ 9:int, weight:int=2 19[true]: balance:int=\_\_ra\_\_ 9:int, weight:int=2 C(garbage\_bin).balance:int := \* ...; C(garbage\_bin).balance:int := \* ...; weight:int := 1;balance:int := C(garbage\_bin)dep:(int -> int)(1);weight:int := 0; balance:int := C(banca)save:(int -> int)(balance:int);res:int := thisloop:( -> int)(); balance:int := C(banca)save:(int -> int)(balance:int);res:int := thisloop:( -> int)(); H(citizen).\_\_return\_ok\_\_::int[C(garbage\_bin).](\_\_ra\_\_ 41:int) H(citizen).\_\_return\_ok\_\_::int[C(garbage\_bin).](\_\_ra\_\_ 20:int) 43[true]: balance:int=\_\_ra\_\_ 41:int, weight:int=2 22[true]: balance:int=\_\_ra\_\_ 20:int, weight:int=2 weight:int := 1; balance:int :=  $C(garbage\_bin)dep:(int -> int)(1)$ ; weight:int := 0; weight:int := 0; balance:int := C(banca)save:(int -> int)(balance:int);res:int := thisloop:( -> int)(); balance:int := C(banca)save:(int -> int)(balance:int);res:int := thisloop:( -> int)(); 23[true]: balance:int=\_\_ra\_\_ 20:int, weight:int=2 44[true]: balance:int=\_\_ra\_\_ 41:int, weight:int=0 balance:int := C(banca)save:(int -> int)(balance:int);res:int := thisloop:( -> int)(); balance:int := C(garbage\_bin)dep:(int -> int)(1);weight:int := 0; balance:int := C(banca)save:(int -> int)(balance:int);res:int := thisloop:( -> int)(); return res:int return res:int 24[true]: balance:int=\_\_ra\_\_ 20:int, weight:int=1 45[true]: balance:int=\_\_ra\_\_ 41:int, weight:int=0 balance:int := C(banca)save:(int -> int)(balance:int); balance:int := C(garbage\_bin)dep:(int -> int)(1);weight:int := 0; balance:int := C(banca)save:(int -> int)(balance:int);res:int := thisloop:( -> int)(); res:int := thisloop:( -> int)(); return res:int return res:int H(citizen).\_\_return\_ko\_\_::[C(banca).]()/H(citizen):C(banca).save::int(balance:int) 25[true]: balance:int=\_\_ra\_\_ 20:int, weight:int=1 46[true]: balance:int=\_\_ra\_\_ 41:int, weight:int=0 balance:int := C(garbage\_bin)dep:(int -> int)(1); C(banca).balance:int := \* ...;weight:int := 0; res:int := thisloop:( -> int)(); balance:int := C(banca)save:(int -> int)(balance:int);res:int := thisloop:( -> int)(); return res:int return res:int H(citizen).\_\_return\_ok\_\_::int[C(banca).](\_\_ra\_\_ 47:int) H(citizen):C(garbage\_bin).dep::int(1) H(citizen).\_\_return\_ko\_\_::[C(garbage\_bin).]() 26[true]: balance:int=\_\_ra\_\_ 20:int, weight:int=1 49[true]: balance:int=\_\_ra\_\_ 47:int, weight:int=0 C(garbage\_bin).balance:int := \* ...; res:int := thisloop:( -> int)(); weight:int := 0; balance:int := C(banca)save:(int -> int)(balance:int);res:int := thisloop:( -> int)(); return res:int return res:int H(citizen).\_\_return\_ok\_\_::int[C(garbage\_bin).](\_\_ra\_\_ 27:int) 29[true]: balance:int=\_\_ra\_\_ 27:int, weight:int=1 50[true]: balance:int=\_\_ra\_\_ 47:int, weight:int=0 balance:int := D; weight:int := 0; balance:int := C(incinerator) fee:(int -> int)(1); weight:int := 0; balance:int := C(garbage\_bin) dep:(int -> int)(1); weight:int := 0; balance:int := C(garbage\_bin) dep:(int -> int)(1); weight:int := 0; balance:int := C(garbage\_bin) dep:(int -> int)(1); weight:int := 0; balance:int := C(garbage\_bin) dep:(int -> int)(1); weight:int := 0; balance:int := C(garbage\_bin) dep:(int -> int)(1); weight:int := 0; balance:int := C(garbage\_bin) dep:(int -> int)(1); weight:int := 0; balance:int := C(garbage\_bin) dep:(int -> int)(1); weight:int := 0; balance:int := C(garbage\_bin) dep:(int -> int)(1); weight:int := 0; balance:int := C(garbage\_bin) dep:(int -> int)(1); weight:int := 0; balance:int := C(garbage\_bin) dep:(int -> int)(1); weight:int := 0; balance:int := C(garbage\_bin) dep:(int -> int)(1); weight:int := 0; balance:int := C(garbage\_bin) dep:(int -> int)(1); weight:int := 0; balance:int := C(garbage\_bin) dep:(int -> int)(1); weight:int := 0; balance:int := C(garbage\_bin) dep:(int -> int)(1); weight:int := 0; balance:int := C(garbage\_bin) dep:(int -> int)(1); weight:int := 0; balance:int := C(garbage\_bin) dep:(int -> int)(1); weight:int := 0; balance:int := C(garbage\_bin) dep:(int -> int)(1); weight:int := 0; balance:int := C(garbage\_bin) dep:(int -> int)(1); weight:int := 0; balance:int := C(banca)save:(int -> int)(balance:int);res:int := thisloop:( -> int)(); 30[true]: balance:int=\_\_ra\_\_ 27:int, weight:int=0 balance:int := C(banca)save:(int -> int)(balance:int);res:int := thisloop:( -> int)(); return res:int 31[true]: balance:int=\_\_ra\_\_ 27:int, weight:int=0 balance:int := C(banca)save:(int -> int)(balance:int); res:int := thisloop:( -> int)(); return res:int H(citizen).\_\_return\_ko\_\_::[C(banca).]() H(citizen):C(banca).save::int(balance:int) 32[true]: balance:int=\_\_ra\_\_ 27:int, weight:int=0 C(banca).balance:int := \* ...;res:int := thisloop:( -> int)(); return res:int H(citizen).\_\_return\_ok\_\_::int[C(banca).](\_\_ra\_\_ 33:int) 35[true]: balance:int=\_\_ra\_\_ 33:int, weight:int=0 res:int := thisloop:( -> int)();return res:int 36[true]: balance:int=\_\_ra\_\_ 33:int, weight:int=0 balance:int := D;weight:int := 0;balance:int := C(incinerator)fee:(int -> int)(1);weight:int := 0;balance:int := C(garbage\_bin)dep:(int -> int)(1);weight:int := 37[true]: balance:int=\_\_ra\_\_ 33:int, weight:int=0 balance:int := D;  $weight: int := 0; balance: int := C(incinerator) fee: (int -> int)(D); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := C(garbage\_bin) dep: (int -> int)(1); weight: int := 0; balance: int := 0; bal$ 

1[true]: balance:int=0, weight:int=0 res2:int := thisloop:( -> int)();

return res2:int

return res:int