```
bits 32
extern _printf
global _afisareASM
segment data public data use32
    format db "%d ",0
    sir1 times 10 dd 0
segment code public code use32
_afisareASM:
        push EBP
        mov EBP, ESP
        ; pushad
        ; sub esp, 4 * 3
        ;add ESP, 4*1
        mov ECX, [ESP+8]
        mov ESI, [ESP+12]
        lodsd
        et1:
             lodsd
            push ECX
             ;printf("%d",EAX)
            push EAX
            push dword format
            call printf
             add ESP, 4*2
            pop ECX
        loop et1
        mov EAX, 0
        ; popad
        mov ESP, EBP
        pop EBP
        ret
```

```
#include <stdio.h>
#include <stdlib.h>
int v[50];
int N[50];
int P[50];
int afisareASM(int n,int v[]);
int main() {
    FILE* f=fopen("numere.txt","r");
    int x;
    int ln=0;
    while (fscanf (f, "%d", &x) !=EOF) {
        v[++ln]=x;
    int n=0, p=0;
    for(int i=1; i<=ln; ++i) {
        if(v[i]<0){
            N[++n] = v[i];
        } else {
            P[++p]=v[i];
        }
    printf("Numere negative: ");
    afisareASM(n,N);
    printf("\n");
    printf("Numere pozitive: ");
    afisareASM(p,P);
    return 0;
}
```

```
_afisareASM:
  15
16
                     push EBP
                     mov EBP, ESP
                     ;sub esp, 4 * 3
                     ;add ESP, 4*1
  23
                     mov ECX, [ESP+8]
                     mov ESI, [ESP+12]
  25
26
                     lodsd
                     et1:
  28
29
                           lodsd
                            push ECX
  30
                            ;printf("%d",EAX)
                            push EAX
                            push dword format
  33
34
                            call _printf
add ESP,4*2
  35
36
37
                            pop ECX
                     loop et1
  38
39
                     mov EAX,0
  40
                     ;popad
                     mov ESP, EBP
  41
42
  43
44
          8
          9
                           main() {
FILE* f=fopen("numere.txt","r");
        10
        11
        12
        13
                                   ln=0;
        14
                                     (fscanf(f,"%d",&x)!=EOF){
        15
        16
                                   v[++ln]=x;
        17
                                   n=0,p=0;
(int i=1; i<=ln; ++i) {
  if(v[i]<0) {
    N[++n]=v[i];
        18
        19
        20
        21
        22
        23
                                           P[++p]=v[i];
        24
        25
        26
                            printf("Numere negative: ");
                            afisareASM(n,N);
        27
                            printf("\n")
printf("Numere pozitive: ");
        28
        29
                            afisareASM(p,P);
        30
 x86 Native Tools Command Prompt for VS 2017
 ain.c
main.c(8): error C2054: expected '(' to follow 'P'
main.c(8): error C2085: 'afisareASM': not in formal parameter list
main.c(10): error C2085: 'main': not in formal parameter list
main.c(10): error C2143: syntax error: missing ';' before '{'
C:\Users\Home\Desktop\asm_tools\npp\Lab12>cl main.c /link concat.obj
Microsoft (R) C/C++ Optimizing Compiler Version 19.16.27045 for x86
Copyright (C) Microsoft Corporation. All rights reserved.
main.c
main.c(29): error C2146: syntax error: missing ';' before identifier 'printf'
C:\Users\Home\Desktop\asm_tools\npp\Lab12>cl main.c /link concat.obj
Microsoft (R) C/C++ Optimizing Compiler Version 19.16.27045 for x86
Copyright (C) Microsoft Corporation. All rights reserved.
 nain.c
main.c
Microsoft (R) Incremental Linker Version 14.16.27045.0
Copyright (C) Microsoft Corporation. All rights reserved.
/out:main.exe
 concat.obj
 ain.obj
C:\Users\Home\Desktop\asm_tools\npp\Lab12>main
Numere negative: -200 -63 -3
Numere pozitive: 123 298 1204 30203 0 35 403
C:\Users\Home\Desktop\asm_tools\npp\Lab12>
```