Kód: □□□□□□ Név:______________________ Dátum:__________ 2. ZH

//Minden helyes válasz 1 pontot ér.

```
Procedure zh2_51(VAR j:int16; VAL i:int32; VAL k:int16);@nodisplay;@cdecl;
Static B: byte[ ]:=[-7,21,-16,51];
       W: word[ ]:=[-27,61];
       D:dword[ ]:=[-31,23];
VAR y:int32; x:int16; z:int32;
Begin zh2_51; // Az eljárás meghívása:      zh2_51(word_var, 8, DX);
  1. MOV(i,EAX); MOV(4,ECX);
  //? EAX = %___________
     ismet:  DEC(CX); SUB(CL,AL); DEC(CX); JNS ismet;
  //? EAX = $___________ ; ECX = $___________ ; CF= __
  2. LEA(i,EBX);SUB(ESP,EBX); LEA(y,EAX); SUB(EBP,EAX);
  //? (type uns8 BL)=___________ ; (type int32 EBX)=___________
  //? (type uns8 AL)=___________ ; EAX = $___________ ; CF= __
  3. MOV(D[-1],EAX); MOV(D[2],EBX);
  //? (type uns8 AH)=___________ ; (type uns8 AL) =___________ ; EAX = $___________
  //? EBX=$___________ ; (type int8 BL)=___________
  4. MOV(-29,EAX); MOV(EAX,ECX); ROR(3,AX);
  //? (type int8 AL) =___________ ; (type uns8 AH) =___________
  //? (type uns8 CL)=___________ ; ECX=$___________ ; CF= __
  5. MOV(-7,EAX); MOV(ESP,EBX); PUSH(EAX); SUB(ESP,EBX); ADD([ESP],EAX);
  //? (type int8 AH) =___________ ; (type uns8 AL) =___________
  //? EBX=$___________ ; CF= __
  6. LEA(B[3],EAX); MOV([EAX],EBX); MOV(EBX,EAX); SUB(41,EAX);
  //? AL = %___________ ; (type int8 AL) =___________ ; (type uns8 AH) =___________
  //? EBX=$___________ ; (type int8 BL) =___________ ; PF= __
  7. MOV(&W[-1],EAX); ujra:  MOV([EAX],EBX); INC(EAX); AND(BL,BL); JNZ ujra; SUB(&W,EAX);
  //? BL =___________ ; EAX=$___________ ; (type int8 BH) =___________ ; CF= __
  8. MOV(-38,EAX); LEA ([EAX+EAX*2],ECX); MOV(D,EBX); SHLD(3,EBX,EAX);
  //? EAX = $___________ ; BX =___________ ; (type uns8 AL) =___________
  //? (type uns8 CH)=___________ ; CL =___________ ; CF= __ ; ZF= __
  9. MOV(D[1],EAX); CDQ; ADD(DL,AL); ADC(DH,AH);
  //? AL =___________ ; EAX = $___________
  //? EDX=$___________ ; CF= __ ; PF= __ ; SF= __
 10. MOV(-52,EAX); CDQ; MOV(7,ECX); IDIV(ECX); ADD(DL,CL);
  //? DL =___________ ; AX = $___________ ; (type uns8 AL) =___________
  //? CL=___________ ; CF= __
  End zh2_51;
```

Kód: □□□□□□ Név:________________________ Dátum:__________ 2. ZH

//Minden helyes válasz 1 pontot ér.

```
Procedure zh2_52(VAL i:int32; VAL k:int16; VAR j:int16);@nodisplay;
Static B: byte[ ]:=[-11,27,-5,0];
       W: word[ ]:=[25,-71];
       D:dword[ ]:=[-35,47];
VAR x:int16; z:int32; y:int32;
Begin zh2_52; // Az eljárás meghívása:      zh2_52(-7, 2, word_var);
```

1. `MOVSX(k,EAX); MOV(3,ECX); ismet:  ROR(CL,AL); DEC(CL); JNS ismet;`

   //? EAX = $____________ ; ECX =____________ ; CF= __

2. `LEA(j,EBX);SUB(ESP,EBX); LEA(z,EAX); SUB(EBP,EAX);`

   //? (type uns8 BL)=____________ ; (type int32 EBX)=____________

   //? (type uns8 AL)=____________ ; EAX = $____________ ; CF= __

3. `MOV(D[-2],EAX); MOVSX(W[2],EBX);`

   //? (type uns8 AH)=____________ ; (type uns8 AL) =____________ ; EAX = $____________

   //? EBX=$____________ ; (type int8 BL)=____________

4. `MOV(-24,EAX); MOV(EAX,EBX); ROL(2,AX);`

   //? (type int8 AL) =____________ ; (type uns8 AH) =____________

   //? (type uns8 BL)=____________ ; EBX=$____________ ; CF= __

5. `MOV(-28,EAX); MOV(ESP,EBX); PUSH(EAX); ADD([EBX-4],EAX); SUB(ESP,EBX);`

   //? (type int8 AH) =____________ ; (type uns8 AL) =____________

   //? EBX=$____________ ; SF= __

6. `LEA(B[2],EAX); MOV([EAX],EBX); MOV(EBX,EAX); ADD(21,EAX);`

   //? AL = %____________ ; (type int8 AL) =____________ ; (type uns8 AH) =____________

   //? EBX=$____________ ; (type int8 BL) =____________ ; AF= __

7. `MOV(&B,EAX); ujra:  MOV([EAX],EBX); INC(EAX); CMP(BL,-8); JA ujra; SUB(&B,EAX);`

   //? AL =____________ ; EBX=$____________ ; (type int8 BH) =____________ ; PF= __

8. `MOV(-21,EAX); INTMUL(4,EAX,ECX); MOV(D[-4],EBX); SHLD(3,EAX,EBX);`

   //? EAX = $____________ ; BX =____________ ; (type uns8 AL) =____________

   //? (type uns8 CH)=____________ ; CL =____________ ; CF= __ ; SF= __

9. `MOV(D[4],EAX); CDQ; ADD(DL,AL); ADC(DH,AH);`

   //? AL =____________ ; AX = $____________ ; EDX=$____________

   //? CF= __ ; PF= __ ; SF= __

10. `MOV(-25,EAX); CDQ; MOV(6,EBX); IDIV(EBX); ADD(DL,BL);`

    //? DL =____________ ; AX = $____________ ; (type uns8 AL) =____________

    //? BL=____________ ; OF= __

```
End zh2_52;
```

Kód: □□□□□□ Név:________________________ Dátum:__________ 2. ZH

//Minden helyes válasz 1 pontot ér.

```
Procedure zh2_53(VAL k:uns8; VAL i:int32; VAR j:int16);@nodisplay;@cdecl;
Static B: byte[ ]:=[-14,13,-5,52];
       W: word[ ]:=[19,-41];
       D:dword[ ]:=[-39,29];
VAR x:int8; y:int16; z:int32;
Begin zh2_53; // Az eljárás meghívása:      zh2_53(8, -5, word_var);
```

1. `MOV(i,EAX); MOV(3,ECX); ismet:  ROL(CL,AL); DEC(CX); JNZ ismet;`

   //? EAX = $____________ ; ECX =____________ ; CF= __

2. `LEA(j,EBX);SUB(EBP,EBX); LEA(x,EAX); SUB(ESP,EAX);`

   //? (type uns8 BL)=____________ ; (type int32 EBX)=____________

   //? (type uns8 AL)=____________ ; EAX = $____________ ; CF= __

3. `MOV(D[1],EAX); MOV(D[-8],EBX);`

   //? (type uns8 AH)=____________ ; (type uns8 AL) =____________ ; EAX = $____________

   //? EBX=$____________ ; (type int8 BL)=____________

4. `MOV(-44,EAX); MOV(EAX,EBX); ROL(3,EAX);`

   //? (type int8 AL) =____________ ; (type uns8 AH) =____________

   //? (type uns8 BL)=____________ ; EBX=$____________ ; CF= __

5. `MOV(-3,EAX); MOV(ESP,EBX); PUSH(EAX); PUSH(EBX);SUB(ESP,EBX); ADD([ESP+4],EAX);`

   //? (type int8 AH) =____________ ; (type uns8 AL) =____________

   //? EBX=$____________ ; CF= __

6. `LEA(B[3],EAX); MOV([EAX],EBX); MOV(EBX,EAX); SUB(57,EAX);`

   //? AL = %____________ ; (type int8 AL) =____________ ; (type uns8 AH) =____________

   //? EBX=$____________ ; (type int8 BL) =____________ ; PF= __

7. `MOV(&B,EAX); ujra:  MOV([EAX],EBX); INC(EAX); OR(BL,BL); JNZ ujra; SUB(&B,EAX);`

   //? AL =____________ ; EBX=$____________ ; (type int8 BH) =____________ ; CF= __

8. `MOV(17,EAX); LEA ([EAX+EAX*4],ECX); MOV(D,EBX); SHLD(3,EBX,EAX);`

   //? EAX = $____________ ; BX =____________ ; (type uns8 AL) =____________

   //? (type uns8 CH)=____________ ; CL =____________ ; CF= __ ; SF= __

9. `MOV(D[2],EAX); CDQ; ADD(DL,AL); ADC(DH,AH);`

   //? AL =____________ ; AX = $____________

   //? EDX=$____________ ; CF= __ ; PF= __ ; SF= __

10. `MOV(-39,EAX); CDQ; MOV(7,EBX); IDIV(EBX); ADD(DL,BL);`

    //? DL =____________ ; AX = $____________ ; (type uns8 AL) =____________

    //? BL=____________ ; CF= __

```
End zh2_53;
```

Kód: □□□□□□ Név:____________________ Dátum:__________ 2. ZH

//Minden helyes válasz 1 pontot ér.

```
Procedure zh2_54(VAR j:int16; VAL k:int16; VAL i:int32);@nodisplay;@cdecl;
Static B: byte[ ]:=[-15,23,-7,22];
       W: word[ ]:=[22,-51];
       D:dword[ ]:=[25,-25];
VAR x:int16; y:int8; z:int32;
Begin zh2_54; // Az eljárás meghívása:      zh2_54(word_var, 5, -5);
```

1. `MOVSX(k,EAX); MOV(9,EBX); ismet:  DEC(BX); SUB(BL,AL); DEC(BX); JNS ismet;`

   //? EAX = $____________ ; EBX =____________ ; CF= __

2. `LEA(j,EBX);SUB(ESP,EBX); LEA(y,EAX); SUB(EBP,EAX);`

   //? (type uns8 BL)=____________ ; (type int32 EBX)=____________

   //? (type uns8 AL)=____________ ; EAX = $____________ ; CF= __

3. `MOV(D[-1],EAX); MOVSX(B[3],EBX);`

   //? (type uns8 AH)=____________ ; (type uns8 AL) =____________ ; EAX = $____________

   //? EBX=$____________ ; (type int8 BL)=____________

4. `MOV(-45,EAX); MOV(EAX,EBX); ROL(12,EAX);`

   //? (type int8 AL) =____________ ; (type uns8 AH) =____________

   //? (type uns8 BL)=____________ ; EBX=$____________ ; CF= __

5. `MOV(-21,EAX); MOV(ESP,EBX); PUSH(EAX); ADD([EBX-4],EAX); SUB(ESP,EBX);`

   //? (type int8 AH) =____________ ; (type uns8 AL) =____________

   //? EBX=$____________ ; SF= __

6. `LEA(B[2],EAX); MOV([EAX],EBX); MOV(EBX,EAX); ADD(15,EAX);`

   //? AL = %____________ ; (type int8 AL) =____________ ; (type uns8 AH) =____________

   //? EBX=$____________ ; (type int8 BL) =____________ ; AF= __

7. `MOV(&B,EAX); ujra:  MOV([EAX],EBX); INC(EAX); CMP(BL,0); JG ujra; SUB(&B,EAX);`

   //? AL =____________ ; EBX=$____________ ; (type int8 BH) =____________ ; PF= __

8. `MOV(-23,EAX); INTMUL(3,EAX,ECX); MOV(D,EBX); SHLD(5,EAX,EBX);`

   //? EAX = $____________ ; BX =____________ ; (type uns8 AL) =____________

   //? (type uns8 CH)=____________ ; CL =____________ ; CF= __ ; SF= __

9. `MOV(-23,EAX); CDQ; ADD(DL,AL); ADC(DH,AH);`

   //? AL =____________ ; AX = $____________ ; EDX=$____________

   //? CF= __ ; PF= __ ; SF= __

10. `MOV(D[0],EAX); CDQ; MOV(9,ECX); IDIV(ECX); ADD(DL,CL);`

    //? DL =____________ ; AX = $____________ ; (type uns8 AL) =____________

    //? CL=____________ ; OF= __

```
End zh2_54;
```