```
Q1:
push
       ebp
mov
       ebp, esp
and
       esp, 0FFFFFF0h
sub
      esp, 20h
     ___main
call
mov
       dword ptr [esp+1Ch], 3
                                     // int x = 3
mov
       dword ptr [esp+18h], 5
                                     // int y = 5
       dword ptr [esp+14h], 0
                                     // int z = 0
mov
mov
       eax, [esp+1Ch]
                                     // eax = x
                                     // eax = x * y
imul
      eax, [esp+18h]
mov
       edx, eax
                                     // edx = x * y
       eax, [esp+1Ch]
                                     // eax = x
mov
mov
       ecx, eax
                                     // ecx = x
      ecx, 1Fh
shr
                                     // ecx = x / 2^31
add
       eax, ecx
                                     // eax = x + x / 2^31
sar
      eax, 1
                                     // eax = (x + x / 2^31) >> 1
sub
       edx, eax
                                     // edx = x * y - (x + x / 2^31) >> 1
mov
       eax, edx
                                     // eax = x * y - (x + x / 2^31)>>1
       [esp+14h], eax
                                     // int z = x * y - (x + x / 2^31) >> 1
mov
       eax, [esp+14h]
                                     // eax = z
mov
       [esp+4], eax
                                     // temp mem for printf
mov
mov
       dword ptr [esp], offset aD; "%d"
call
     _printf
                                     // print value of z
       eax, 0
mov
leave
retn _main
                                     // return 0
endp
```