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```
[bits 64]
mov edi, 0x7fffffff
mov esi, 0x1123
; Program
; r8 - sign(edi) == sign(esi)
; r9 - sign(esi)
; r10 - sign(edi+esi)
; r11 - tmp. under/overflow
mov eax, edi
add eax, esi
mov r8d, edi
shr r8d, 31
mov r9d, esi
shr r9d, 31
xor r8, r9
not r8d
mov r10d, eax
shr r10d, 31
; Check if underflow mov r11, r8 and r11, r9
not r10
and r11, r10
not r10
; If underflow, zero eax and add 80000000h
sub r11, 1
mul r11
add r11, 1
shl r11, 31
add rax, r11
; Check if overflow mov r11, r8 and r11, r10
not r9
and r11, r9
; If overflow, zero eax and add 7fffffffh
sub r11, 1
mul r11
add r11, 1
shl r11, 31
sub r11, r10
add rax, r11
```