Category-1	Category-2	Category-3
| ```
movsd    (%rcx), %xmm1
movsd    (%rsi), %xmm0
movaps   %xmm1, %xmm2
movaps   %xmm0, %xmm3
mulps    %xmm14, %xmm0
         ..............
addps    %xmm1, %xmm0
subps    %xmm3, %xmm2
movlps   %xmm0, (%rsi)
movlps   %xmm2, (%rcx)
addq     $8, %rsi
addq     $8, %rcx
subq     $2, %rdi
``` | ```
vmovss    -4(%rax), %xmm2
vmovaps   %xmm2, %xmm3
vmovss    (%rax), %xmm1
vxorps    %xmm4, %xmm3, %xmm3
vucomiss %xmm3, %xmm1
``` | ```
movq %rbx, 24(%rbp)
movb %r12b, 32(%rbp)
movq %rax, (%rbp)
movq %rbp, %rax
addq $8, %rsp
popq %rbx
popq %rbp
popq %r12
popq %r13
``` |

Category-4	Category-5	Category-6
| ```
pushq    %r14
movq     %rdi, %r14
leaq     8(%rdi), %rdi
pushq    %r13
pushq    %r12
pushq    %rbp
pushq    %rbx
``` | ```
movzbl  2(%rdi), %eax
shrb    $2, %al
andl    $31, %eax
cmpl    $1, %eax
``` | ```
movq (%rbp), %rax
movq %rbx, %rsi
movq %rbp, %rdi
popq %rbx
popq %rbp
popq %r12
movq 32(%rax), %rax
``` |