4.45/

A.

No, when REG is %rsp, %rsp-8 will be pushed into stack instead of %rsp

B.

movq REG, -8(%rsp)

subq $8, %rsp

4.51/

|  |  |
| --- | --- |
| **phase** | **iaddq V,rB** |
| F | icode:ifun = M1[PC];  rA:rB = M1[PC+1];  valC = M8[PC+2];  valP = PC + 10; |
| D | valB = R[rB] |
| E | valE = valB + valC;  set CC |
| M |  |
| W | R[rB] = valE |
| PC | PC = valP |

4.47/

void bubble\_p(long\* data, long count)

{

long\* i, \* last;

for (last = data + count - 1; last > data; last--)

{

for (i = data; i < last; i++)

{

if (\*(i + 1) < \*i)

{

long t = \*(i + 1);

\*(i + 1) = \*i;

\*i = t;

}

}

}

}