2.25

(4)

```
for (i=0; i<a; i++)
    for (j=0; j<b; j++)
        D[4*j] = i + j;
```

(x7: i, x5: a, x29: j, x6: b, x10 → D)

Index	Address (doublewords)
0	0
4	32
8	64
12	96

(+32 between each)

```
(1)  add   x7, x0, x0          // i = 0
(2) Outer_Loop: bge  x7, x5, End_Outer   // loop while i<a
(3)        add   x29, x0, x0           // j = 0
           add   x11, x10, x0          // x11 = &D[0]   (temp)
(4) Inner_Loop: bge  x29, x6, End_Inner  // loop while j<b
                add   x12, x7, x29       // i + j   (temp)
                sd    x12, 0(x11)        // D[4*j] = i + j
                addi  x11, x11, 32       // 8x4 + 32 Bytes = j*32
                addi  x29, x29, 1        // j++
                beq   x0, x0, Inner_Loop
End_Inner:
                addi  x7, x7, 1          // i++
                beq   x0, x0, Outer_Loop
End_Outer:
```

(slli (5))