f) LDRSB R0, [R_1, R_2] assuming R1 = 0x50 000 000 and R2 = 3

R0 = $\boxed{\text{0x FF FF FF 8A}}$

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Homework #3.

1. Suppose that BUSINESS6 structure is defined as :

```
typedef struct - BUSINESS 5
{       uint32_t taxId;
        char   name [23];
        char   direction;
        char   street [31];
        uint 32_t   addNo;
        char   city[28];
        char   state[3];
        uint32_t   zip;
} BUSINESS6
```

a) Show the relative offset of each field in the structure for the unpacked (default alignment) case:

0	uint32_t taxId;
4	char name [23];
27	char direction;
28	char street [31];
60	uint32_t add No;
64	char city [28];
92	char state [3];
96	uint32_t zip;

b) Show the relative offset of each field in the structure for packed case.

```
0     uint32_t   taxId;
4     char    name[23];
27    char   direction;
28    char   street[31];
59    uint32_t  addNo;
63    char   city[28];
91    char   state[3];
94    uint32-t  zip;
```