1.

```
int32_t a32 ;

a32 = 100 ;
```

```
LDR    R0,=100
STR    R0,a32
```

2.

```
int32_t  a32 ;
int32_t  b32 ;

a32 = b32 ;
```

```
LDR    R0,b32
STR    R0,a32
```

3.

```
int8_t    a8 ;
int32_t  b32 ;

a8 = (int8_t) b32 ;
```

```
LDRB   R0,b32
STRB   R0,a8
```

4.

```
int32_t  a32 ;
int16_t  b16 ;

a32 = (int32_t) b16 ;
```

```
LDRSH  R0,b16
STR    R0,a32
```

5.

```
int8_t   a8 ;
int8_t  *p8 ;

p8 = &a8 ;
```

```
ADR    R0,a8
STR    R0,p8
```

6.

```
int32_t  k32 ;
int32_t  *p32 ;

p32 = p32 + k32 ;
```

```
LDR    R0,p32
LDR    R1,k32
LSL    R1,R1,2
ADD    R0,R0,R1
STR    R0,p32
```

7.

```
int8_t   a8[10] ;

a8[5] = 0 ;
```

```
LDR    R0,=0
ADR    R1,a8
STRB   R0,[R1,5]
```

8.

```
int32_t a32[10] ;

a32[5] = 0 ;
```

```
LDR    R0,=0
ADR    R1,a32
STR    R0,[R1,20]
```

9.

```
int8_t   a8[10] ;
int32_t  k32 ;

a8[k32] = 0 ;
```

```
LDR    R0,=0
ADR    R1,a8
LDR    R2,k32
STRB   R0,[R1,R2]
```

10.

```
int32_t  a32[10] ;
uint8_t u8 ;

a32[u8] = 0 ;
```

```
LDR    R0,=0
ADR    R1,a32
LDRB   R2,u8
STR    R0,[R1,R2,LSL 2]
```