

## Main Core

```
char *x = malloc(8);
```

```
char *y = x + 4;
```

```
x[7] = 1;
```

```
y[7] = 1;
```

## Monitor

```
metadata[x] = {x, x+7}
```

```
metadata[y] =  
  metadata[x]
```

```
x+7 in metadata[x]?  
Yes.
```

```
y+7 in metadata[y]?  
No, raise error.
```