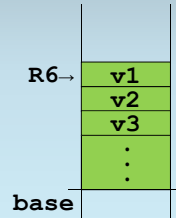


## Let's Start by Saving R1 and Reading v1

```
SUM_OF_3
ST R1,SAVE_R1 ; save R1
LDR R0,R6,#0 ; R0 ← v1
```

So far, so good?

But we're not  
going to pop v1...



```
SAVE_R1 .BLKW #1
```

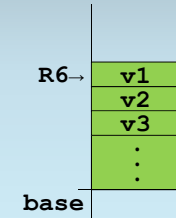
Make a space  
down here.

## Load v2 Using LDR from M[R6 + 1]

```
SUM_OF_3
ST R1,SAVE_R1 ; save R1
LDR R0,R6,#0 ; R0 ← v1
LDR R1,R6,#1 ; R1 ← v2
ADD R0,R0,R1 ; R0 ← v1 + v2
```

Read v2 before popping v1.

And find the sum...



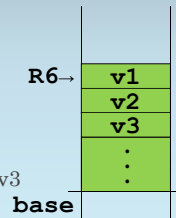
```
SAVE_R1 .BLKW #1
```

## Do the Same for v3 (with Offset 2)

```
SUM_OF_3
ST R1,SAVE_R1 ; save R1
LDR R0,R6,#0 ; R0 ← v1
LDR R1,R6,#1 ; R1 ← v2
ADD R0,R0,R1 ; R0 ← v1 + v2
LDR R1,R6,#2 ; R1 ← v3
ADD R0,R0,R1 ; R0 ← v1 + v2 + v3
```

Now read v3.

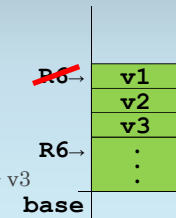
And find the sum...



```
SAVE_R1 .BLKW #1
```

## Pop All Three Values at Once

```
SUM_OF_3
ST R1,SAVE_R1 ; save R1
LDR R0,R6,#0 ; R0 ← v1
LDR R1,R6,#1 ; R1 ← v2
ADD R0,R0,R1 ; R0 ← v1 + v2
LDR R1,R6,#2 ; R1 ← v3
ADD R0,R0,R1 ; R0 ← v1 + v2 + v3
ADD R6,R6,#3 ; pop all three
```



Done with the  
values: pop all  
three!

```
SAVE_R1 .BLKW #1
```