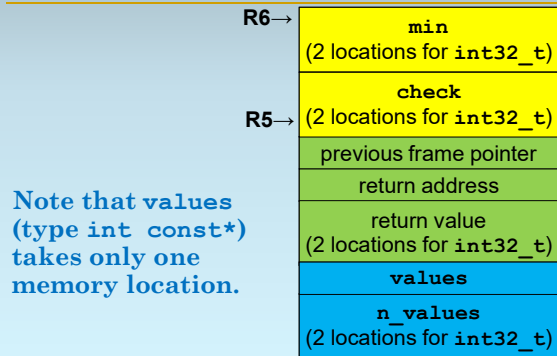


LC-3 Stack Frame for `min_value`



Strings Can Be Stored in Arrays of `chars`

Strings are like (and can be stored in) arrays of `chars`.

Unfortunately, we **must choose a size** for an array.

```
char name[20];
printf ("Hi, what is your name?");
if (1 == scanf ("%s", name)) {
    printf ("Hello, %s!\n", name);
}
```

Array Bounds are Not Checked in C

```
char name[20];
printf ("Hi, what is your name?");
if (1 == scanf ("%s", name)) {
    printf ("Hello, %s!\n", name);
}
```

What happens if human user types more?

Hopefully, the program crashes...

LC-3 Stack Frame for Current Function

Typed "name" can overwrite return address.

Where does it point?

Anywhere the user wants!

Including into the code they just wrote into your machine.

