

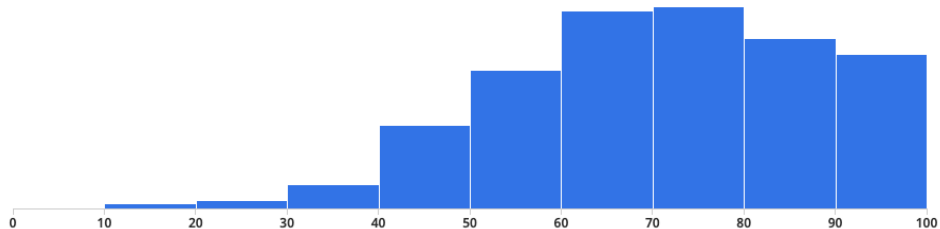
C, Memory

CS 2130: Computer Systems and Organization 1
April 10, 2026

Announcements

- Homework 8 due Monday on Gradescope

Exam 2



Median

71.75

Maximum

103.0

Mean

70.79

Std Dev [?](#)

17.08

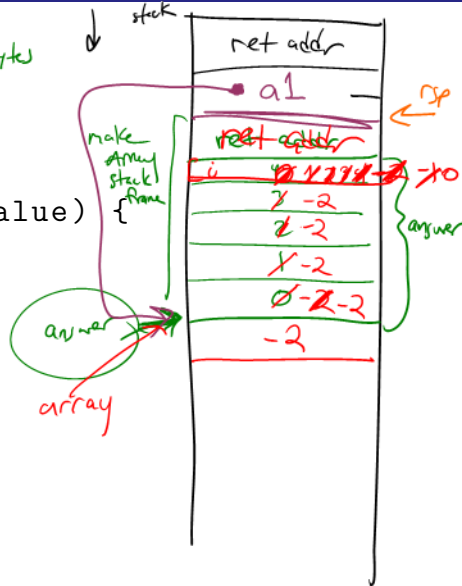
An Interesting Stack Example

```
int *makeArray() {  
    int answer[5];  
    return answer;  
}
```

$5 \times \text{sizeof}(\text{int}) = 5 \times 4 = 20 \text{ bytes}$
= {0, 1, 2, 3, 4}
escaping pointer

```
void setTo(int *array, int length, int value) {  
    for(int i=0; i<length; i+=1)  
        array[i] = value;  
}
```

```
int main(int argc, const char *argv[]) {  
    int *a1 = makeArray();  
    setTo(a1, 5, -2);  
    return 0;  
}
```



List example