

HW2.3. Memory Alpha Model

Consider the following code:

```
#define SPOCK 1701
int KIRK = 1701;
int sulu(int scotty) {
    return scotty * scotty;
}
int main(int argc, char *argv[]) {
    int *chekov = malloc(sizeof(int) * 1701);
    if (chekov) free(chekov);
    sulu(SPOCK); // ← snapshot just before it returns
    return 0;
}
```

For each of the following symbols, choose what section of memory it would live in.

Q1.1: sulu

☐

(a) stack

☐

(b) heap

☐

(c) static/data

☐

(d) code

Q1.2: chekov

☐

(a) stack

☐

(b) heap

☐

(c) static/data

☐

(d) code

Q1.3: *chekov

☐

(a) stack

☐

(b) heap

☐

(c) static/data

☐

(d) code

Q1.4: KIRK

☐

(a) stack

☐

(b) heap

☐

(c) static/data

☐

(d) code

Q1.5: scotty

☐

(a) stack

☐

(b) heap

☐

(c) static/data

☐

(d) code

Q1.6: On the line sulu(SPOCK);, where is SPOCK located?

☐

(a) stack

☐

(b) heap

☐

(c) static/data

☐

(d) code

Save & Grade 20 attempts left

Save only

Additional attempts available with new variants ?

Homework 2

Assessment overview

Total points: 0/100

Score: 0%

Question

Value: 5

History:

Awarded points: 0/5

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