This is CS50

Week 2

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Today

- Compilation
- Arrays
- Strings
- Command-line Arguments
- Problem Set 2

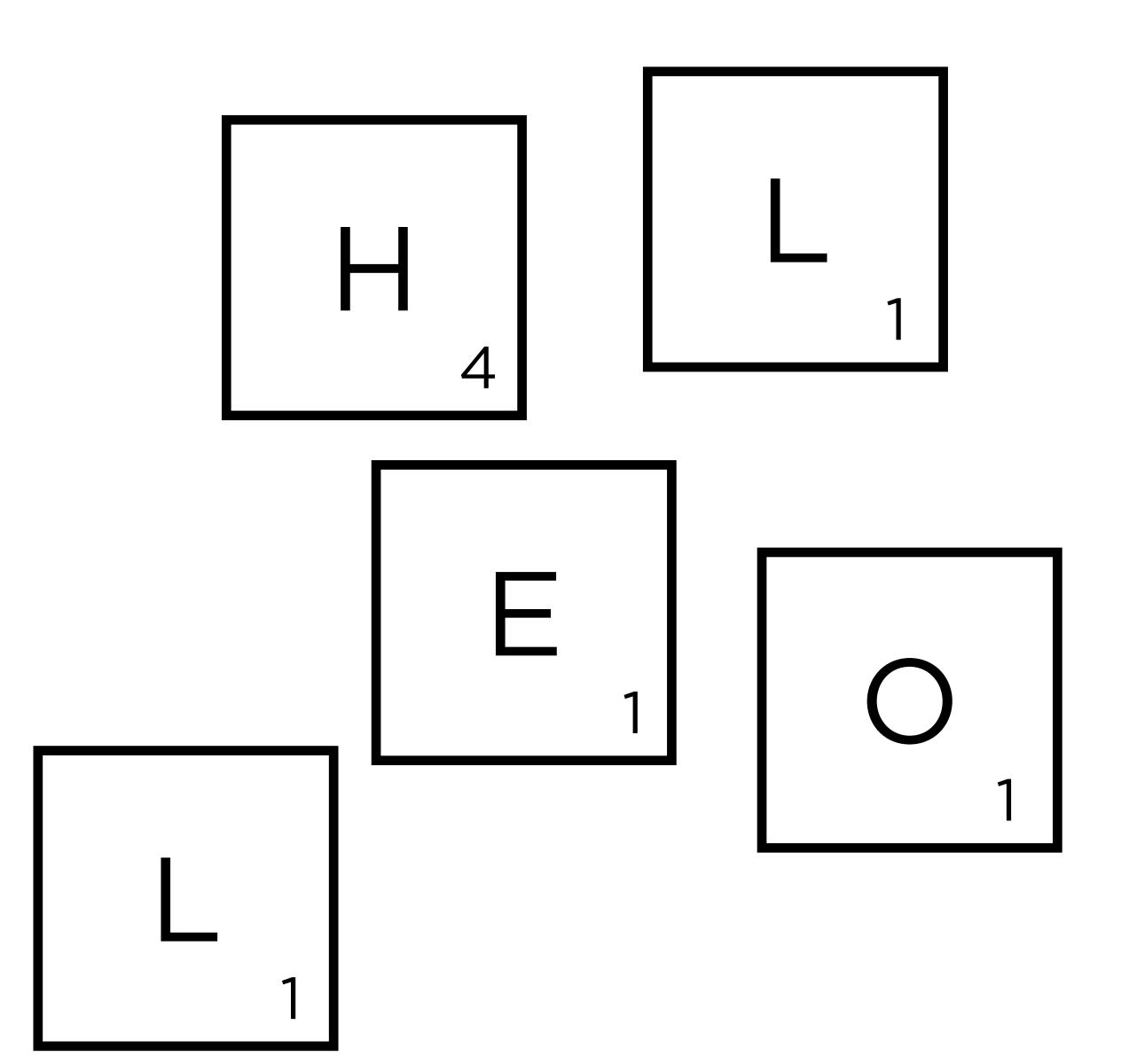
Compilation

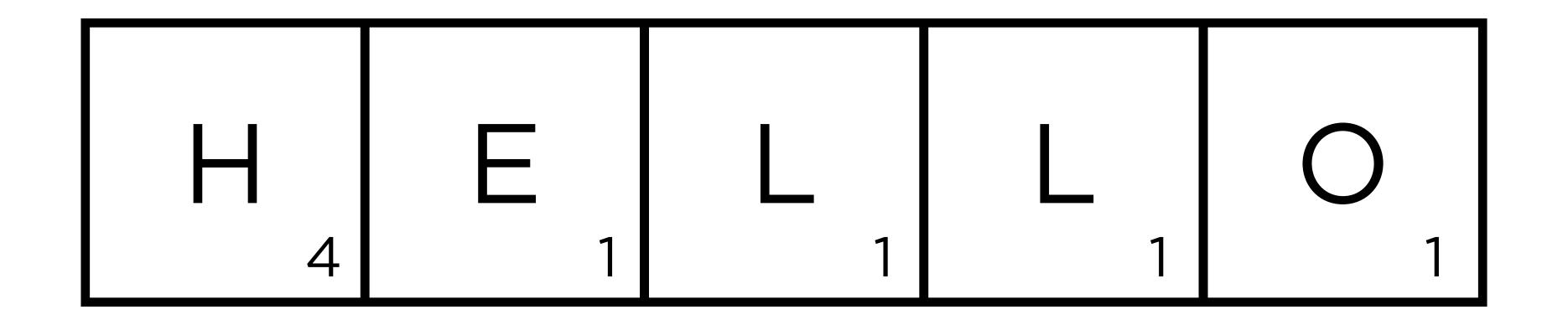
```
int main(void)
{
    print("Hello");
}
```

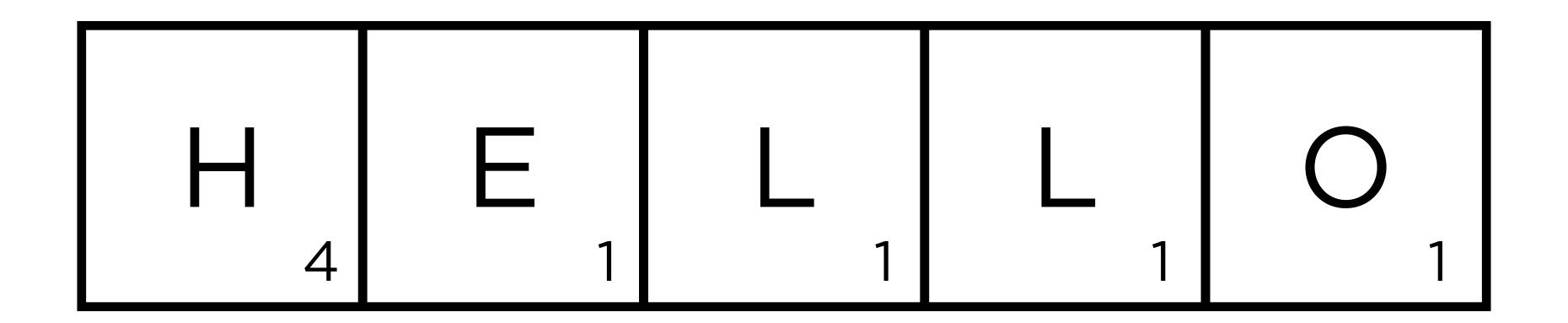
```
main:
# @main
    .cfi_startproc
# BB#0:
   push %rbp
.Ltmp0:
    .cfi_def_cfa_offset 16
```

Arrays

W.
O,
R,
L, L, O,
D,





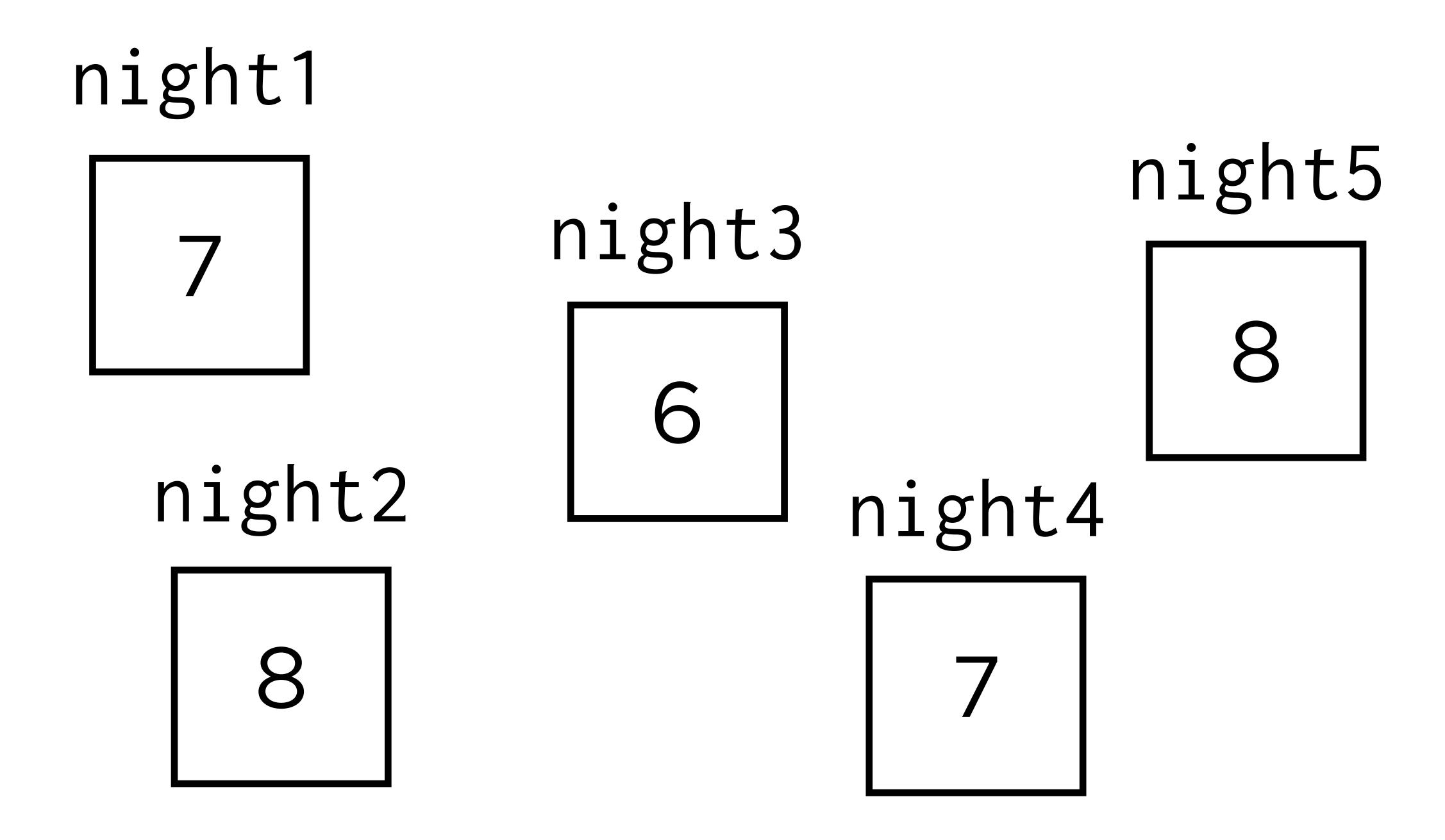


8 points

good morning it's a new day! how was last night?

how many hours did you sleep last night? *

7.5
how many times did you snooze your alarm this morning? * (hint: dont lie! 😭)
2
how was your sleep last night? *
BEST NIGHT EVER! o good a ehit was okay a not so good a didn't sleep a wink T_T
your morning mood? *
what are your goals for today?
be brave, be bold, and be courageous!
did you have a dream last night? do you remember it?
record your dream last night if you remember :)



	8	6		8
--	---	---	--	---

nights[0]

7 8 6 7 8

nights[1]

	8	6		8
--	---	---	--	---

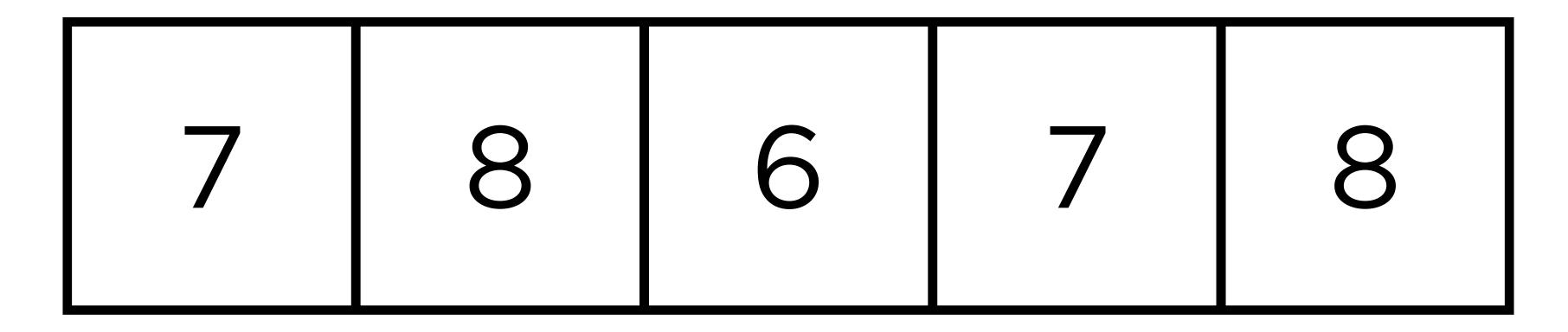
nights[2]

	8	6		8
--	---	---	--	---

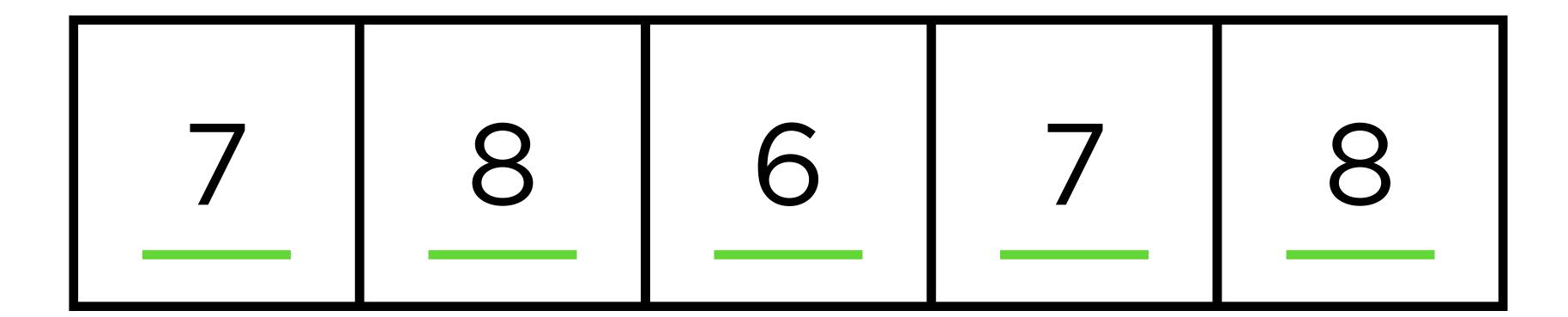
	8	6		8
0	1	2	3	4

	8	6		8
--	---	---	--	---

Name



Size



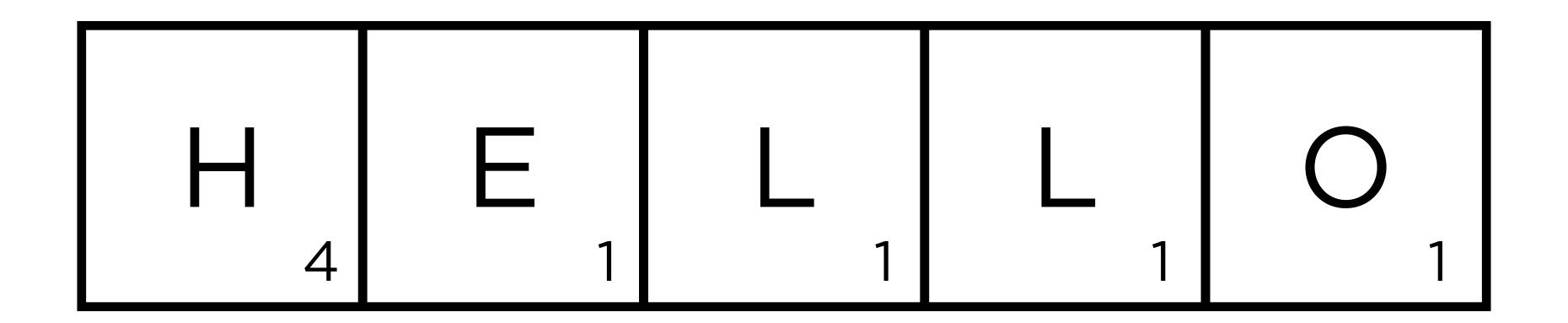
int nights[5];

int nights[5] = {7, 8, 6, 7, 8};

Doubling Up

- Create an array of integers in which each integer is 2 times the value of the previous integer.
- The first element is 1.
- Print the array, integer by integer.

Strings



8 points

phrase

phrase[0]

phrase[1]

phrase[2]

H E L O

Character	Integer
A	65
В	66
C	67

phrase

phrase

72 69	76	76	79
-------	----	----	----

Alphabetical

- Write a program to check if an array of characters is in alphabetical order.
- Assume the characters are all uppercase.

Command-line Arguments

\$./mario H: 8

```
$ ./mario
H: 8
```

```
int main(void)
{
    int height = get_int("H: ");
}
```

```
$./mario 8
```

```
$ ./mario 8
```

```
int main(int argc, string argv[])
{
}
```

argv

 Write a program that prints each command-line argument given to the program

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