

EXAM #2 Apr 1 MON SENG-214

Nested loops

Functions

- call by value
- call by address

1 Helper sheet allowed  
(not to exceed 8.5" x 11")

\*No calculators\*

Arrays - initializing

- using
- find big sm1 avg
- passing arrays to functions

Format of exam:

several short answer

(2-3) predict the output of some code

(1-2) write a function to ...

// write a function return type void

// Prototype void add(int \*sum, int a, int b);

```
void add(int *sum, int a, int b);  
{  
    *sum = a + b;  
}
```

scope add()

sum 

8
---

 0x2000

a 

3
---

 0x2004

b 

5
---

 0x2008

```
int main()  
{
```

```
    int x;
```

```
    int y=3, z=5;
```

```
    add(&x, y, z);
```

```
    return 0;
```

```
}
```

scope main()

x 

8
---

 0x2840

y 

3
---

 0x2844

z 

5
---

 0x2848

```
if (dc == 0)
    printf("Sunday");
else if (dc == 1)
    printf("Monday");
    ;
    ;
```

↙ selector ( ~~can~~ cant be float, double)

```
switch (dc)
{
case 0: printf("Sunday");
        break; # jump to end of case
case 1: printf("Monday");
        break;
    ;
    ;
```

as many cases as you wish

may

```
case 35: case 36: case 42:
```

```
    printf("These are stupid day codes");
    break;
```

```
default: printf("daycode out of range");
         break;
```

```
}
```