CSE 484 In-Class Worksheet #5 – Spring 2018

Name: _____ UWNetID: _____ Date: _____

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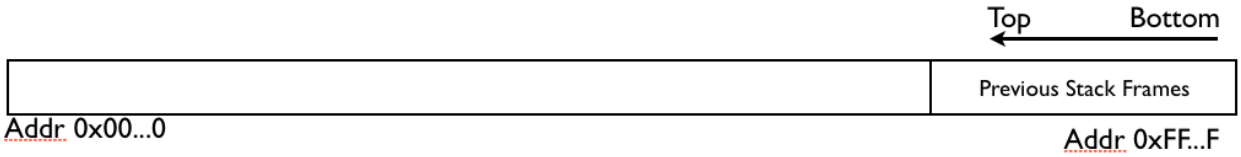
Partner names for this activity: _____

Q1: In the figure below, draw what happens on the stack (x86) when this function is called. What might get overwritten if str is longer than 126 bytes?

```
void func(char *str) {
        char buf[126];
        strcpy(buf,str);
}
```



Q2: Apache 1.3 had the following code:

```
strcpy(record,user);
strcat(record,":");
strcat(record,cpw);
```

The published fix:

```
strncpy(record,user,MAX_STRING_LEN-1);
strcat(record,":");
strncat(record,cpw,MAX_STRING_LEN-1);
```

Is this fix good? If so, why? If not, why not?

Q3: Consider this code:

```
void mycopy(char *input) {
        char buffer[512]; int i;

        for (i=0; i<=512; i++)
                buffer[i] = input[i];
}
void main(int argc, char *argv[]) {
        if (argc==2)
                mycopy(argv[1]);
}
```

Is this code exploitable? If not, why not? If so, why? You may use the diagram below to help answer this question, if you wish.