EL-GY 6483	Name:

1	. Using the	veriable v	cirro	definitions	for	+ho	$f_{\triangle}11$	lorring.
ı	. Using the	variable x.	21Ve	definitions	TOT.	tne	ЮП	iowing:

- (a) An integer
- (b) A pointer to an integer
- (c) An array of 10 integers
- (d) An array of 10 pointers to integers

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2. What is the output of the following C program?

```
#include <stdio.h>
int main ()
{
   int vals[5] = {4, 3, 2, 5, 1};
   int i;
   for (i=0; i<=5; i++) {
      printf("vals[%d]=%d\n", i, vals[i]);
   }
   return 0;
}</pre>
```

3. (a) What is the output of the following C program?

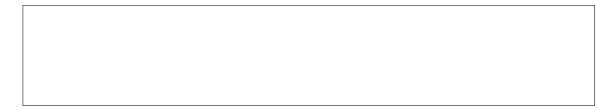
```
# include <stdio.h>
void fun(int y)
{
    y = 30;
}
int main()
{
    int y = 20;
    fun(y);
    printf("%d", y);
    return 0;
}
```

(b) In the program above, is the variable y in main() stored on the stack or on the heap?

(c) What is the output of this C program?

```
# include <stdio.h>
void fun(int *y)
{
     *y = 30;
}
int main()
{
    int y = 20;
    fun(&y);
    printf("%d", y);
    return 0;
}
```

(d) In the program above, is the variable y in main() stored on the stack or on the heap?



(e) True or false: &y in main() and y in fun() have the same value.

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