#1.
a) Write the appropriate `save` instruction to allocate stack space for the following local variables and any padding.

```c
char a;
unsigned short b;
char c;
short d;
int e;
```

```
save __________, ______________________________, __________
(Use the formula, not an absolute value)
```
b) Write the appropriate unoptimized SPARC assembly instructions using the above local variables.

```c
c = 'A';
```

```c
d = -9876;
```

```c
e = b;
```

```c
c = a;
```

(OVER)
#2.

a) Write the appropriate `save` instruction to allocate stack space for the following local variable declaration.

```c
short a[6];
```

```
save _________ , ______________________________ , _________
(Use the formula, not an absolute value)
```

b) Write the appropriate instructions to perform the following assignment statements.

```c
a[5] = a[3];
```

```
________________________
________________________
```

```c
a[2] = a[1];
```

```
________________________
________________________
```

```c
short *ptr; /* ptr mapped to %l1 */
ptr = &a[0];
```

```
________________________
________________________
```

```c
ptr++; /* ptr mapped to %l1 */
```

```
________________________
```

```c
i = *ptr; /* i mapped to %l0; ptr to %l1 */
```

```
________________________
```

```c
*ptr = i; /* i mapped to %l0; ptr to %l1 */
```

```
________________________
```