#1.

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

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

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

b) Write the appropriate unoptimized SPARC assembly instructions using the above local variables.

```
c = 'B';
```

```
d = -9876;
```

```
a = b;
```

```
f = c;
```

(OVER)
#2

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

```c
double a[6];
```

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

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

```c
a[2] = a[4];
```

```
________________________
________________________
```

```c
a[1] = a[3];
```

```
________________________
________________________
```

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

```
________________________
```

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

```
________________________
```

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

```
________________________
```

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

```
________________________
```