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

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

```
save _________ , ______________________________  , _________
```

(Use the formula, not an absolute value)

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

```
f = 8675309;
```

```
c = 0xBABE;
```

```
b = f;
```

```
d = a;
```

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

\[
\text{long } a[6];
\]

```
save __________ , ____________ , __________
(Use the formula, not an absolute value)
```

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

\[
a[1] = a[3];
\]

```
________________________
________________________
________________________
```

\[
a[2] = a[5];
\]

```
________________________
________________________
________________________
```

\[
\text{long } *ptr; \quad /* ptr mapped to } %l3 */
\]

\[
ptr = &a[0];
\]

```
________________________
```

\[
ptr++; \quad /* ptr mapped to } %l3 */
\]

```
________________________
```

\[
\text{long } x = *ptr; \quad /* x mapped to } %l0; \text{ ptr to } %l3 */
\]

```
________________________
```

\[
*ptr = x; \quad /* x mapped to } %l0; \text{ ptr to } %l3 */
\]

```
________________________
```