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

    short    a;
    char     b;
    unsigned short  c;
    short    d;
    char     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 = a;

    c = 0xFADE;

    d = b;

    e = 'A';
#2. a) Write the appropriate `save` instruction to allocate stack space for the following local variable declaration.

```c
int a[7];
```

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

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

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

________________________
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```c
a[4] = a[1];
```

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```c
int *ptr; /* ptr mapped to %l4 */
ptr = &a[2];
```

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```c
++ptr; /* ptr mapped to %l4 */
```

________________________

```c
int d = *ptr; /* d mapped to %l2; ptr to %l4 */
```

________________________

```c
*ptr = d; /* d mapped to %l2; ptr to %l4 */
```

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#3. Give the equivalent C array expression for the following pointer expression assuming `a` is defined as an array.

```c
a is equivalent to ______________________________ (equivalent array expression).
```