1. Given the following declaration, write a snippet of C code that might lead to strlen(arr) returning no less than 8.
char arr[4];
2. Fill in the correct expression:
char s1[MAX1]; char s2[MAX2];
getname(s2, MAX2); /* Initializes the string s2 */
strncpy(s1, s2,;
3. a) Fill in the argument for malloc so that it allocates just enough space for the remaining code.
char **s = malloc(); char p[10] = "Paul"; char q[10] = "Karen"; char r[10] = "Francois";
*s = p; *(s+1) = q; *(s+2) = r;
b) Write the above 3 statements using array notation so that they have the same effect.
c) Write one C statement to truncate the string "Francois" so that the following printf statement prints Fran
printf("%s\n", r);
d) Give the type of the following expressions. If the expression is not a pointer, also give its value.

```
&s
*s
**s
s[0]
&s[1]
*s[0]
4. Given the two declarations below circle the C statements that
will compile without warning or error (other than those about unused variables):
int *p;
int i = 10;
char q = i;
                char c = p; double f = i;
                                                   double d = i;
5. Show what is written to the file for each of the fprintf and fwrite
statements. Show the value(s) in decimal and binary. ASCII values for characters: '0' is
48 (0x30), '1' is 49 (0x31), '6' is 54 (0x36)
int i = 16;
fprintf(fp,"%d", i);
int j = 0x10;
fprintf(fp,"%d", j);
fwrite(&i, sizeof(int), 1,fp);
char c = i;
fwrite(&c, sizeof(char), 1,fp);
```