C Review 3 Answers

```
/* OUTPUT: 1 1 1 */
void a()
{
  int a = 0;
  int b = 0;
  int c = -1;
  c = a++ || ++b;
  printf("%d %d %d\n", a, b, c); /* 11 */
}
/* OUTPUT: 0 1 0 */
void b()
{
  int a = 1;
  int b = 1;
  int c = -1;
  c = --a \&\& b++;
  printf("%d %d %d\n", a, b, c);
}
/* OUTPUT: 4 5 6 7 */
void c()
{
  int n = 3;
   int *p = &n;
  while (++*p < 8)
       printf("%d ", *p);
   }
}
/* OUTPUT: 3 5 */
void d()
  int a[] = {5, 3, 1};
  int *p = &a[1];
  printf("\n%d ", *p--);
  printf("%d \n", *p);
}
/* OUTPUT: 2 2 */
void e()
   int a[] = \{5, 3, 1\};
   int *p = &a[1];
  printf("%d ", --*p);
  printf("%d \n", *p);
}
```

```
/* OUTPUT: 7 6 5 */
void f()
{
   int a[] = {
      9, 8, 7, 6, 5, 4, 3, 2, 1,
  };
  int *p = a + 1;
  while (*p++ > 5)
       printf("%d ", *p);
  printf("\n");
}
/* OUTPUT: 9 8 7 6 */
void g()
{
  int a[] = {12, 10, 8, 6, 4, 2};
  int *p = a + 1;
  while (--*p > 5)
      printf("%d ", *p);
  printf("\n");
}
/* OUTPUT: 2 4 6 8 */
void h()
  int a[] = {1, 2, 3, 4, 5, 6, 7, 8, 9};
  int *p;
  for (p = a + 1; p < a + 8; p += 2)
       printf("%d ", *p);
}
/* OUTPUT: 11 10 */
void i()
  int m = 12, n = 34;
  int *p = \&m;
  int *q = &n;
  *q = --*p;
  *p = (*q)--;
  printf("\n%d %d\n", *p, *q);
}
/* OUTPUT: 22 11 */
void j()
  int a[] = {11, 22};
  int *p = a;
  int *q = a + 1;
  p++;
  q--;
  printf("%d %d\n", *p, *q);
}
```

```
/* OUTPUT: gobe */
void k()
   char a[] ="goodbye!";
  char *p;
  for (p = a; *p != 0; p += 2)
       putchar(*p);
}
/* OUTPUT: 33 11 11*/
void 1()
   int a[] = {11, 22, 33};
   int *b[3];
  int **p, **q, **r;
  b[0] = a, b[1] = a + 1;
  b[2] = a + 2;
  p = b;
   q = b + 1, r = b + 2;
   *p = *r--;
   --*q;
   printf("\n%d %d %d\n", **p, **q, **r);
}
/* OUTPUT: 33 11 23*/
void m(){
  int a[] = {11, 22, 33};
  int *p = a;
  int *q = a + 1;
  int *r = a + 2;
  *p++ = *r--;
   *++q = *r--;
  --*p; ++*q; --*r;
  printf("%d %d %d\n", a[0], a[1], a[2]);
}
/* OUTPUT: 23hi */
void n(){
   char a[32] = "0123456789";
   sscanf("hi","%s", a + 4);
  printf("%s\n", a+2);
}
/* OUTPUT: beautiful */
void o(){
   char *argv[] = {"hello", "beautiful", "world"};
   printf("%s\n", *(argv + 1));
}
/* OUTPUT: ello*/
void p(){
   char *argv[] = {"hello", "beautiful", "world"};
   printf("%s\n", *argv + 1);
}
```