Part 1

```
#include <stdio.h>
#include <endian.h>
int main(int argc, char **argv)
        short val;
        char *p_val;
        p_val = (char *) &val;
          The following two lines assume big-endian
          Architecture to initialize the variable Val
          to 0x1234.
\#if \_BYTE\_ORDER == \_BIG\_ENDIAN
        p_val[1] = 0x12;
        p_val[0] = 0x34;
#else
        p_val[1] = 0x34;
        p_val[0] = 0x12;
#endif
        printf("%x\n", val);
        return 0;
}
Part 2
#include <stdio.h>
#include <stdint.h>
int is_big_endian(void);
int main(int argc, char **argv)
{
        short val;
        char *p_val;
        p_val = (char *) &val;
          The following two lines assume big-endian
          Architecture to initialize the variable Val
          to 0x1234.
        if(!is_big_endian){
                p_val[0] = 0x12;
                p_val[1] = 0x34;
```