```c
#include <stdio.h>
#include <string.h>

void tester(int* c, int k) {
    printf("x[%d] = %d\n", k, c[k]);
    //changed to value between 0 and 9999
    c[500]=1309;
}

int main(int argc, char* argv[]) {
    int i = 0, j, k;
    int x[10000];

    //changed to 10000
    while(i < 10000){
        x[i] = i;
        i++;
    }

    printf("Enter an integer between 0 to 9999: ");
    fflush(stdout);
    scanf("%d",&k);

    tester(x, k);
}
```