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linear_search.cpp

```cpp
#include <stdio.h>
#include <stdlib.h>

int LinearSearch(int *ar,unsigned num,int key)
{
    unsigned i;

    for (i=0;i<num;i++) {
        if (ar[i] == key) {
            return i;
        }
    }
    return -1;
}

void main()
{
    int ar[]={23,47,19,63,57,26,75,73,82,89,47,11};
    unsigned num;
    int key,idx;

    num=sizeof(ar)/sizeof(ar[0]);
    key=75;
    idx=LinearSearch(ar,num,key);
    if (idx == -1) {
        puts("                .");
    } else {
        printf("        %d              .\n",idx);
    }
}
```

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