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## binary\_search.cpp

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

int BinarySearch(int *ar,unsigned num,int key)
{
    unsigned Upper,Lower,Mid;

    Lower=0;
    Upper=num-1;
    for (;;) {
        Mid=(Upper+Lower)/2;

        if (ar[Mid]==key) return Mid;
        if (ar[Mid]>key) {
            Upper=Mid-1;
        } else {
            Lower=Mid+1;
        }
        if (Upper<=Lower) {
            return -1;
        }
    }
}

void main()
{
    int
ar[]={2,6,13,19,21,21,23,29,35,48,62,89,90,95,99,102,109,208,629};
    unsigned num;
    int key,idx;

    num=sizeof(ar)/sizeof(ar[0]);
    key=29;
    idx=BinarySearch(ar,num,key);
    if (idx == -1) {
        puts(".");
    } else {
```

```
        printf("%d\n", idx);  
    }  
}
```

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