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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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