

OnlineGDB

online compiler and debugger for c/c++

code. compile. run. debug. share.

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source code

main.c

```
1 #include <stdio.h>
2 #include <stdlib.h>
3
4 int compare(const void *a, const void *b) {
5     return (*(int*)a - *(int*)b);
6 }
7
8 int maximumToys(int prices[], int n, int k) {
9     // Sort the prices in ascending order
10    qsort(prices, n, sizeof(int), compare);
11
12    int count = 0;
13    int totalCost = 0;
14
15    // Buy toys until we run out of budget
16    for (int i = 0; i < n; i++) {
17        totalCost += prices[i];
18        if (totalCost <= k) {
19            count++;
20        } else {
21            break;
22        }
23    }
24
25    return count;
26 }
27
28 int main() {
29     int prices[] = {1, 12, 5, 111, 200, 1000, 10};
30     int n = sizeof(prices) / sizeof(int);
31     int k = 1000;
32     int result = maximumToys(prices, n, k);
33     printf("Maximum number of toys that can be bought: %d\n", result);
34     return 0;
35 }
```

Run

Debug

Stop

Share

Save

Beautify

Language C

input

1,12,5,111,200,1000,10

1

...Program finished with exit code 0

Press ENTER to exit console.

30°C Sunny

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