



A hand-drawn schematic diagram of a simple circuit. It consists of a battery symbol on the left, represented by two parallel vertical lines of unequal length. A single wire connects the positive terminal of the battery to a rectangular resistor symbol. Another wire connects the other side of the resistor to the negative terminal of the battery, completing the circuit. The number '68' is written below the resistor.

$$\text{Cost} = 9 + 7 + 11 + 12 + 21 + 30 + 39 + 69$$

Larger Parameters

$i = 1$
 while ($B > 0$) {
 $idex = N - i$;
 if ($arr[i] = idex$) continue
 $B--$;
 $index[idex] = index[idex]$
 $current = arr[i]$
 $arr[i] = idex$
 $arr[index[idex]] = current$
 $index[idex] = i$
 $index[current] = index[idex]$

Handwritten diagram illustrating a 3x3 grid with indices 0, 1, 2. The grid contains values: (0,0)=0, (0,1)=1, (0,2)=1, (1,0)=3, (1,1)=8, (1,2)=2, (2,0)=5, (2,1)=3, (2,2)=5. A green box highlights the cell (0,1) with the value 1, and a blue box highlights the cell (1,0) with the value 3. A red arrow points from the value 1 to the value 3, indicating a transition. To the right, a green box contains the coordinates $[0,1,1]$ and a blue box contains $[1,0,2]$. Above the green box is the text $0 + (2-1) = 1$ and to its left is $(0,0,0)$.

Good day

DE



$\begin{array}{c} \text{1} \\ \text{1} \\ \text{1} \\ \text{1} \\ \text{1} \\ \text{1} \end{array} \quad \begin{array}{c} \text{1} \\ \text{1} \\ \text{1} \\ \text{1} \\ \text{1} \\ \text{1} \end{array} \quad \begin{array}{c} \text{1} \\ \text{1} \\ \text{1} \\ \text{1} \\ \text{1} \\ \text{1} \end{array}$

Diagram illustrating a queue of tasks (1-7) and their scheduling priority. The queue is represented by a horizontal bar divided into 7 slots, numbered 1 to 7 below. The tasks are represented by colored 'X' marks: Task 1 (blue), Task 2 (blue), Task 3 (green), Task 4 (blue), Task 5 (green), Task 6 (green), and Task 7 (green). A blue arrow points to Task 4, indicating it is the current task being scheduled. Below the queue, a green box contains two steps:

- ① Send to desc. priority
- ② Try to do the job as late as possible

$\frac{X}{2} \quad \frac{1}{2} \quad \frac{1}{2} \quad \frac{1}{2} \quad \frac{1}{2} \quad \frac{1}{2}$

```

1 // main.cpp
2 #include <iostream>
3 using namespace std;
4
5 int main() {
6     int n;
7     while (n < 1 || n > 10) {
8         cout << "Enter number [1-10]: ";
9         cin >> n;
10    }
11
12    int baseProfit = 0;
13    int cost = 0;
14
15    for (int i = 0; i < n; i++) {
16        int price;
17        while (price < 1 || price > 10) {
18            cout << "Enter price: ";
19            cin >> price;
20        }
21
22        baseProfit += price;
23        cost += 1;
24    }
25
26    int profit = baseProfit - cost;
27    cout << "Profit: " << profit << endl;
28    return 0;
29 }

```

50, 1, 1, 1, 1, 1
 → 50 + 1 + 1 + 1 + 1 + 1 = 55

Items $\begin{cases} \nearrow \text{weight} \\ \searrow \text{value} \end{cases}$

$$P/w >$$
$$\frac{121}{29}$$

$p_{wa} = a.v / a.w \Rightarrow$
 $p_{wb} = b.v / b.w \Rightarrow$
 $if (p_{wa} > p_{wb})$
 $return -1$
 $else \rightarrow return 1$

$$a-b \Rightarrow \textcircled{-1}$$

pub - pwa

① sort Desc PWK

② $\text{pol}(i, 0; i, n; \text{it}) \leftarrow$

$$if (cap > item.wt) \{$$

Cap = item.wt;

profit = item.val
return

$$\cos \theta_{\text{Limit}} = \text{len. Vol} / \text{len. wt.}$$
$$\text{profit} = (\text{cap} \times \text{cost of 1 unit})$$

break:

3 3

 (t, y) (x, y) $(2, 4)$ (x, y) (x, y)

Uuq

Monis

types

Prims