

# Рекурсия

При  $x = 1, 2, 3, 4, 5, 6$  функция  $f(x)$  принимает указанные значения. Чему равно значение  $f(7)$ ? Создать рекуррентную процедуру.

<b>Задача 4.1</b> 1, 5, 14, 37, 93, 229 <small>4.3</small>	<b>Задача 4.2</b> 0, 4, 13, 29, 54, 90 <small>4.3</small>
<b>Задача 4.3</b> 1, 4, 7, 19, 40, 97 <small>4.3</small>	<b>Задача 4.4</b> 0, 4, 5, 11, 14, 22 <small>4.3</small>
<b>Задача 4.5</b> 1, 2, 5, 13, 32, 74 <small>4.3</small>	<b>Задача 4.6</b> 1, 3, 7, 15, 31, 63 <small>4.3</small>
<b>Задача 4.7</b> 1, 4, 7, 19, 40, 97 <small>4.3</small>	<b>Задача 4.8</b> 1, 4, 7, 19, 40, 97 <small>4.3</small>
<b>Задача 4.9</b> 1, 7, 16, 28, 43, 61 <small>4.3</small>	<b>Задача 4.10</b> 0, 4, 13, 29, 54, 90 <small>4.3</small>
<b>Задача 4.11</b> 1, 4, 7, 19, 40, 97 <small>4.3</small>	<b>Задача 4.12</b> 1, 5, 14, 37, 93, 229 <small>4.3</small>
<b>Задача 4.13</b> 1, 1, 9, 33, 81, 161 <small>4.3</small>	<b>Задача 4.14</b> 1, 1, 9, 33, 81, 161 <small>4.3</small>
<b>Задача 4.15</b> 1, 5, 11, 19, 29, 41 <small>4.3</small>	<b>Задача 4.16</b> 1, 0, 1, 4, 15, 64 <small>4.3</small>
<b>Задача 4.17</b> 1, 3, 10, 43, 225, 1393 <small>4.3</small>	<b>Задача 4.18</b> 1, 3, 12, 60, 360, 2520 <small>4.3</small>
<b>Задача 4.19</b> 1, 5, 11, 19, 29, 41 <small>4.3</small>	<b>Задача 4.20</b> 1, 2, 5, 14, 47, 194 <small>4.3</small>
<b>Задача 4.21</b> 1, 1, 2, 7, 33, 191 <small>4.3</small>	<b>Задача 4.22</b> 1, 3, 5, 9, 15, 25 <small>4.3</small>
<b>Задача 4.23</b> 1, 2, 4, 9, 24, 79 <small>4.3</small>	<b>Задача 4.24</b> 1, 0, 1, 4, 15, 64 <small>4.3</small>
<b>Задача 4.25</b> 1, 0, 1, 4, 15, 64 <small>4.3</small>	<b>Задача 4.26</b> 1, 5, 11, 19, 29, 41 <small>4.3</small>
<b>Задача 4.27</b> 1, 1, 2, 7, 33, 191 <small>4.3</small>	<b>Задача 4.28</b> 2, 4, 9, 27, 107, 533 <small>4.3</small>

**Задача 4.29**

1, 5, 14, 37, 93, 229

4.3

**Задача 4.30**

1, 1, 3, 18, 180, 2700

4.3

**Задача 4.31**

1, 5, 18, 58, 179, 543

4.3

**Задача 4.32**

1, 1, 2, 7, 33, 191

4.3

## Рекурсия

1	558	$2g[n-1]+g[n-2]+n$
2	139	$n*n+g[n-1]$
3	217	$g[n-1]+3g[n-2]$
4	27	$n*n-g[n-1]$
5	163	$2g[n-1]+(n-2)(n-1)/2$
6	127	$2g[n-1]+1$
7	217	$g[n-1]+3g[n-2]$
8	217	$g[n-1]+3g[n-2]$
9	82	$g[n-1]+3n$
10	139	$n*n+g[n-1]$
11	217	$g[n-1]+3g[n-2]$
12	558	$2g[n-1]+g[n-2]+n$
13	281	$g[n-1]+4(n-2)(n-1)$
14	281	$g[n-1]+4(n-2)(n-1)$
15	55	$g[n-1]+2n$
16	325	$g[n-1](n-2)+n-2$
17	9976	$ng[n-1]+g[n-2]$
18	20160	$(n+1)g[n-1]$
19	55	$g[n-1]+2n$
20	977	$g[n-1](n-2)+n$
21	1304	$ng[n-1]-g[n-2]$
22	41	$g[n-1]+g[n-2]+1$
23	324	$g[n-1](n-3)+n+1$
24	325	$g[n-1](n-2)+n-2$
25	325	$g[n-1](n-2)+n-2$
26	55	$g[n-1]+2n$
27	1304	$ng[n-1]-g[n-2]$
28	3195	$g[n-1](n-1)-n+4$
29	558	$2g[n-1]+g[n-2]+n$
30	56700	$g[n-1]n(n-1)/2$
31	1636	$3g[n-1]+n$
32	1304	$ng[n-1]-g[n-2]$