


Танирбергенов Ерасыл ПО 22-1


Цикл “for”

main.cpp	Run	Output
<pre>1 //Факториал 2 #include <iostream> 3 using namespace std; 4 int main() { 5 int n, a = 1; 6 cin >> n; 7 for (int i = 1; i<=n; i++) { 8 a*=i; 9 } 10 cout << a << endl; 11 return 0; 12 }</pre>		<pre>/tmp/thqqAdsAxz.o 3 6 === Code Execution Successful ===</pre>

main.cpp	Run	Output
<pre>1 //Степень 2 #include <iostream> 3 using namespace std; 4 int main() { 5 int n, a = 1; 6 cin >> n; 7 for (int i = 0; i<n; i++) { 8 a*=2; 9 } 10 cout << a << endl; 11 return 0; 12 }</pre>		<pre>/tmp/JCbghrD2cd.o 4 16 === Code Execution Successful ===</pre>

main.cpp	Run	Output
<pre>1 //Сумма квадратов 2 #include <iostream> 3 using namespace std; 4 int main() { 5 int n, a = 0; 6 cin >> n; 7 for (int i; i<=n; i++) { 8 a = a+i*i; 9 } 10 cout << a << endl; 11 return 0; 12 } 13</pre>		<pre>/tmp/qSwyOfk74v.o 2 5 === Code Execution Successful ===</pre>

main.cpp	Run	Output
<pre>1 //Число сочетаний 2 #include <iostream> 3 using namespace std; 4 int main() { 5 int n, k, a = 1, b = 1, x; 6 cin >> n >> k; 7 for (int i = 1; i<=n; i++) { 8 a*=i; 9 } 10 for (int i = 1; i<=k; i++) { 11 b*=i; 12 } 13 x = n - k; 14 for (int i = 1; i<=x; i++) { 15 x*=i; 16 } 17 cout << a / b * x << endl; 18 return 0; 19 }</pre>		<pre>/tmp/bz9YFbE7wB.o 2 1 2 === Code Execution Successful ===</pre>

main.cpp	Run	Output
<pre>1 //Геометрическая прогрессия 2 #include <iostream> 3 using namespace std; 4 int main() { 5 int a, n, b=1, s=1; //a = число, n = количество чисел, b = 6 a^i, s = сумма 7 cin >> a >> n; 8 for (int i = 1; i <= n; i++) { 9 b *= a; 10 s += b; 11 } 12 cout << s; 13 return 0; 14 }</pre>		<pre>/tmp/bir8NdQNnk.o 2 2 7 === Code Execution Successful ===</pre>