<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta charset="UTF-8">  
 <title>Calc</title>  
 <script type="text/javascript" src="https://gc.kis.v2.scr.kaspersky-labs.com/FD126C42-EBFA-4E12-B309-BB3FDD723AC1/main.js?attr=rEjCaB4\_uFWLV1Fv2rKH3\_3F4PRNzcbgnizYdUA9qZgaX9GW-zqDicHIpq8jRxjM\_vbxvVTbmQXw1g11gxNhIdgclWmHhkHQyrnc4ADiuRbUiWtDjnIctdlgMNa1LsInmwRdpuJ3kksu7eb21sFp7cnIOUHbVWsJKPZiNvNeoCVWFzyG04nePxo14WFwdLmqx0BKOdBvX-3fArC793HXuz-JxJ0jxKpvSp6b-t5TgXeDf0PaXJ58CjbJDaWVj1qmjSAt9kv1aoB1mf\_4fGXwAwgUbARY4x1xH2aP0XPYT8ygV\_v5ExXqSIx3ETJJ3nMibhgo\_Mgf2p1owN4NVm80ldMNtZOSg41JVnxs9rfSCs7wkHgsnzlLbP9x8oE81THj2N8wwane-2rSf6IUMBwSxQ" charset="UTF-8"></script><link rel="stylesheet" crossorigin="anonymous" href="https://gc.kis.v2.scr.kaspersky-labs.com/E3E8934C-235A-4B0E-825A-35A08381A191/abn/main.css?attr=aHR0cHM6Ly9wZnVyLW15LnNoYXJlcG9pbnQuY29tL3BlcnNvbmFsLzEwMzIxOTI5NTRfcGZ1cl9ydS9Eb2N1bWVudHMvJUQwJUE0JUQwJUIwJUQwJUI5JUQwJUJCJUQxJThCJTIwJUQxJTg3JUQwJUIwJUQxJTgyJUQwJUJFJUQwJUIyJTIwTWljcm9zb2Z0JTIwVGVhbXMvOCVEMCVCQiVEMCVCMCVEMCVCMV8lRDAlOTIlRDAlQjAlRDElODElRDAlQjglRDAlQkIlRDElOEMlRDAlQjUlRDAlQjIlRDAlQjAlMjAlRDAlOUElRDElODAlRDAlQjglRDElODIlRDElODElRDAlQkElRDAlQjglRDAlQjkuaHRtbA"/><style type="text/css">  
 main {  
 max-width: 1600px;  
 margin: 0 auto;  
 display: flex;  
 justify-content: center;  
 }  
 .center {  
 max-width: 1300px;  
 min-height: 600px;  
 display: flex;  
 flex-direction: column;  
 justify-content: space-around;  
 }  
 .left, .right {  
 width: 200px;  
 height: 10px;  
 display: flex;  
 flex-wrap: wrap;  
 justify-content: space-around;  
 margin-top: 80px;  
 margin-left: 10px;  
 }  
 #log {  
 margin: 0 auto;  
 background-color: ghostwhite;  
 border: 1px solid;  
 width: 560px;  
 min-height: 150px;  
 display: flex;  
 justify-content: center; */\*Центрирование по горизонтали\*/* align-items: center;  
 font-size: 50px;  
 border-radius: 10px;  
 word-wrap: break-word;  
 }  
 .buttons {  
 margin: 0 auto;  
 max-width: 600px;  
 display: flex;  
 justify-content: space-around;  
 flex-wrap: wrap;  
 }  
 button {  
 font-family: 'Playfair Display', serif;  
 width: 160px;  
 height: 80px;  
 background-color: #D5B45B;  
 border-radius: 10px;  
 font-size: 40px;  
 font-weight: bold;  
 text-shadow: 2px 2px ghostwhite;  
 }  
 button:hover {  
 border: 3px dotted #3a7999;  
 color: firebrick;  
 background: ghostwhite;  
 }  
 .b1 {  
 font-family: 'Playfair Display', serif;  
 width: 560px;  
 height: 80px;  
 background-color: orangered;  
 margin: 0 auto;  
 }  
  
 @media screen and (max-width: 700px) {  
 #log {  
 width: 550px;  
 }  
 button {  
 width: 154px;  
 height: 77px;  
 font-size: 24px;  
 }  
 .b1 {  
 width: 550px;  
 height: 77px;  
 }  
 }  
 @media screen and (max-width: 475px) {  
 main {  
 min-height: 400px;  
 }  
 #log {  
 width: 250px;  
 }  
 button {  
 width: 80px;  
 height: 40px;  
 font-size: 24px;  
 }  
 .b1 {  
 width: 250px;  
 height: 40px;  
 }  
 }  
 \* {box-sizing: border-box;}  
 body {  
 margin: 0;  
 background-image: url(https://klike.net/uploads/posts/2019-06/1561182970\_30.jpg);  
 }  
 header {  
 text-align: center;  
 background-image: url(https://klike.net/uploads/posts/2019-06/medium/1561182942\_2.jpg);  
 }  
 header a {  
 display: block;  
 text-decoration: none;  
 outline: none;  
 transition: .3s ease-in-out;  
 }  
 .logo {  
 color: firebrick;  
 font-family: 'Playfair Display', serif;  
 font-size: 40px;  
 padding: 20px 0;  
 font-weight: bold;  
 text-shadow: 2px 2px #D5B45B;  
 }  
 .logo:hover {  
 color: white;  
 animation: bounce 1s;  
 }  
 @keyframes bounce {  
 0%, 20%, 60%, 100% {  
 transform: translateY(0);  
 transform: translateY(0);  
 }  
  
 40% {  
 transform: translateY(-20px);  
 transform: translateY(-20px);  
 }  
  
 80% {  
 transform: translateY(-10px);  
 transform: translateY(-10px);  
 }  
 }  
 nav {  
 display: table;  
 margin: 0 auto;  
 text-shadow: 2px 2px firebrick;  
 }  
 nav ul {  
 list-style: none;  
 margin: 0;  
 padding: 0;  
 }  
 .topmenu:after {  
 content: "";  
 display: table;  
 clear: both;  
 }  
 .topmenu > li {  
 width: 250px;  
 float: left;  
 position: relative;  
 font-family: 'Open Sans', sans-serif;  
 }  
 .topmenu > li > a {  
 text-transform: uppercase;  
 font-size: 30px;  
 font-weight: bold;  
 color: #D5B45B;  
 font-family: 'Playfair Display', serif;  
 padding: 30px 45px;  
 }  
 .topmenu li a:hover {  
 color: ghostwhite;  
 }  
 .topmenu-link:after {  
 content: "🏠";  
 }  
 .topmenu-link-1:after {  
 content: "🔒";  
 }  
 .topmenu-link-2:after {  
 content: "📖";  
 }  
 .submenu-link:after {  
 content: "👇";  
 }  
 .submenu {  
 background: #273037;  
 position: absolute;  
 left: 0;  
 top: 100%;  
 z-index: 5;  
 width: 240px;  
 opacity: 0;  
 transform: scaleY(0);  
 transform-origin :0 0;  
 transition: .5s ease-in-out;  
 }  
 .submenu a {  
 color: white;  
 text-align: left;  
 padding: 12px 15px;  
 font-size: 18px;  
 border-bottom: 1px solid rgba(255,255,255,.1);  
 }  
 .submenu li a:hover {  
 color: #D5B45B;  
 }  
 .submenu-link-1:after {  
 content: "👧";  
 }  
 .submenu-link-2:after {  
 content: "👦";  
 }  
 .submenu li:last-child a {border-bottom: none;}  
 .topmenu > li:hover .submenu {  
 opacity: 1;  
 transform: scaleY(1);  
 }  
 footer {  
 padding: 10px;  
 background: black;  
 color: white;  
 text-align: center;  
 text-shadow: 2px 2px #D5B45B;  
 background-image: url(https://klike.net/uploads/posts/2019-06/medium/1561182942\_2.jpg);  
 }  
 .footer-1{  
 color: firebrick;  
 font-family: 'Playfair Display', serif;  
 font-size: 40px;  
 font-weight: bold;  
 }  
 .footer-1:hover {  
 color: white;  
 animation: bounce 1s;  
 }  
 .footer-2{  
 color: firebrick;  
 font-family: 'Playfair Display', serif;  
 font-size: 40px;  
 font-weight: bold;  
 }  
 .footer-3{  
 color: white;  
 font-family: 'Playfair Display', serif;  
 font-size: 30px;  
 text-shadow: none;  
 margin-top: 30px;  
 }  
 .small-but {  
 background-color: coral;  
 width: 80px;  
 height: 80px;  
 }  
 .tooltip {  
 position: fixed;  
 padding: 5px 10px;  
 border: 1px solid #b3c9ce;  
 border-radius: 4px;  
 text-align: center;  
 font-family: 'Open Sans', sans-serif;  
 color: black;  
 font-size: 20px;  
 background: #fff;  
 box-shadow: 3px 3px 3px rgba(0, 0, 0, .3);  
 }  
  
</style>  
  
</head>  
<body>  
<header>  
 <a href="" class="logo">LABORATORY 8</a>  
 <nav>  
 <ul class="topmenu">  
 <li><a href="#r1" class="topmenu-link">CALCUL</a></li>  
 <li><a href="" class="submenu-link">ABOUT US</a>  
 <ul class="submenu">  
 <li><a target="\_blank" class="submenu-link-1" href="https://vk.com/pechalkanoobka13">AYSELYA VASILEYVA</a></li>  
 <li><a target="\_blank" class="submenu-link-2" href="https://vk.com/segovsky">SERGEY KRITSKIY</a></li>  
 </ul>  
 </li>  
 <li><a target="\_blank"  
 href="http://www.consultant.ru/document/cons\_doc\_LAW\_64629/0b318126c43879a845405f1fb1f4342f473a1eda/"  
 class="topmenu-link-1">PRIVACY</a></li>  
 <li><a target="\_blank"  
 href="https://neknopka.ru/%D1%87%D1%82%D0%BE-%D0%BE%D0%B7%D0%BD%D0%B0%D1%87%D0%B0%D1%8E%D1%82-%D0%BA%D0%BD%D0%BE%D0%BF%D0%BA%D0%B8-%D0%BD%D0%B0-%D0%BA%D0%B0%D0%BB%D1%8C%D0%BA%D1%83%D0%BB%D1%8F%D1%82%D0%BE%D1%80%D0%B5/"  
 class="topmenu-link-2">HOW TO</a></li>  
 </ul>  
 </nav>  
</header>  
<main>  
 <script>  
 let tooltipElem;  
  
 document.onmouseover = function(event) {  
 let target = event.target;  
  
 *// если у нас есть подсказка...* let tooltipHtml = target.dataset.tooltip;  
 if (!tooltipHtml) return;  
  
 *// ...создадим элемент для подсказки* tooltipElem = document.createElement('div');  
 tooltipElem.className = 'tooltip';  
 tooltipElem.innerHTML = tooltipHtml;  
 document.body.append(tooltipElem);  
  
 *// спозиционируем его сверху от аннотируемого элемента (top-center)* let coords = target.getBoundingClientRect();  
  
 let left = coords.left + (target.offsetWidth - tooltipElem.offsetWidth) / 2;  
 if (left < 0) left = 0; *// не заезжать за левый край окна* let top = coords.top - tooltipElem.offsetHeight - 5;  
 if (top < 0) { *// если подсказка не помещается сверху, то отображать её снизу* top = coords.top + target.offsetHeight + 5;  
 }  
  
 tooltipElem.style.left = left + 'px';  
 tooltipElem.style.top = top + 'px';  
 };  
  
 document.onmouseout = function(e) {  
  
 if (tooltipElem) {  
 tooltipElem.remove();  
 tooltipElem = null;  
 }  
  
 };  
 </script>  
 <div class="left">  
 <button class="small-but" onclick="*f\_plus*()">+</button>  
 <button class="small-but" onclick="*f\_minus*()">-</button>  
 <button class="small-but" onclick="*f\_multiplication*()">×</button>  
 <button class="small-but" onclick="*f\_division*()">÷</button>  
 <button class="small-but" onclick="*f\_square*()">x<sup>2</sup></button>  
 <button class="small-but" onclick="*f\_sqrt*()"><sup>2</sup>√</button>  
 <button class="small-but" onclick="*f\_square\_to\_y*()">x<sup>y</sup></button>  
 <button class="small-but" onclick="*f\_sqrt\_to\_y*()"><sup>y</sup>√</button>  
 <button class="small-but" onclick="*f\_sin*()">sin</button>  
 <button class="small-but" onclick="*f\_cos*()">cos</button>  
 <button class="small-but" onclick="*f\_tg*()">tg</button>  
 <button class="small-but" onclick="*f\_log*()">log</button>  
 </div>  
 <div class="center">  
 <div class="buttons">  
 <button id="r1" onclick="*Num1*()">1</button>  
 <button id="r2" onclick="*Num2*()">2</button>  
 <button id="r3" onclick="*Num3*()">3</button>  
 <button id="r4" onclick="*Num4*()">4</button>  
 <button id="r5" onclick="*Num5*()">5</button>  
 <button id="r6" onclick="*Num6*()">6</button>  
 <button id="r7" onclick="*Num7*()">7</button>  
 <button id="r8" onclick="*Num8*()">8</button>  
 <button id="r9" onclick="*Num9*()">9</button>  
 <button onclick="*f1*()">⭐</button>  
 <button id="r0" onclick="*Num0*()">0</button>  
 <button onclick="*f1*()">⭐</button>  
 </div>  
 <div id="log">0</div>  
 <button id="equality" class="b1" onclick="*f\_equality*()">RUN</button>  
 </div>  
 <div class="right">  
 <button id="zap" class="small-but" onclick="*f\_zap*()">,</button>  
 <button id="plus-minus" class="small-but" data-tooltip="Поменять знак" onclick="*f\_plus\_minus*()">+/-</button>  
 <button id="del\_last" class="small-but" data-tooltip="Удалить один символ" onclick="*f\_del\_last*()">1🗑</button>  
 <button id="del" class="small-but" data-tooltip="Отчистить всё" onclick="*f\_del*()">🗑</button>  
 <button id="fact" class="small-but" onclick="*f\_fact*()">x!</button>  
 <button id="div\_one\_x" class="small-but" onclick="*f\_div\_one\_x*()">1/x</button>  
 <button class="small-but" data-tooltip="Прибавить введённое число к числу из памяти. Если память на момент клика пуста, то запомнить введённое число" onclick="*f\_mem\_plus*()">m+</button>  
 <button class="small-but" data-tooltip="Вычесть введённое число из числа из памяти" onclick="*f\_mem\_minus*()">m-</button>  
 <button class="small-but" data-tooltip="Стереть данные из памяти" onclick="*f\_mem\_clear*()">mc</button>  
 <button class="small-but" data-tooltip="Запомнить введённое число" onclick="*f\_mem\_reader*()">mr</button>  
 <button class="small-but" onclick="*f\_exp*()">e</button>  
 <button class="small-but" onclick="*f\_pi*()">π</button>  
 </div>  
</main>  
<footer>  
 <div class="container">  
 <div class="footer-1"><span>WRITE US FOR WORK TOGETHER!</span></div>  
 <div class="footer-2"><a href="mailto:1032192954@pfur.ru">✍</a></div>  
  
 <div class="footer-3"><span> © 2020</span></div>  
 </div>  
</footer>  
<div id="memory">No memory</div>  
<script type="text/javascript">  
 var first\_num;  
 var action;  
 function *IsFirst*() {  
 if (typeof first\_num != 'undefined' && document.getElementById("log").innerHTML.length > (first\_num.length + 1)) {  
 return false;  
 }  
 else return true;  
 }  
 function *Num1*() {  
 from\_id = document.getElementById("r1").innerHTML;  
 from\_log = document.getElementById("log").innerHTML;  
 if(from\_log === "0") {  
 document.getElementById("log").innerHTML = "";  
 }  
 document.getElementById("log").innerHTML += from\_id;  
 }  
 function *Num2*() {  
 from\_id = document.getElementById("r2").innerHTML;  
 from\_log = document.getElementById("log").innerHTML;  
 if(from\_log === "0") {  
 document.getElementById("log").innerHTML = "";  
 }  
 document.getElementById("log").innerHTML += from\_id;  
 }  
 function *Num3*() {  
 from\_id = document.getElementById("r3").innerHTML;  
 from\_log = document.getElementById("log").innerHTML;  
 if(from\_log === "0") {  
 document.getElementById("log").innerHTML = "";  
 }  
 document.getElementById("log").innerHTML += from\_id;  
 }  
 function *Num4*() {  
 from\_id = document.getElementById("r4").innerHTML;  
 from\_log = document.getElementById("log").innerHTML;  
 if(from\_log === "0") {  
 document.getElementById("log").innerHTML = "";  
 }  
 document.getElementById("log").innerHTML += from\_id;  
 }  
 function *Num5*() {  
 from\_id = document.getElementById("r5").innerHTML;  
 from\_log = document.getElementById("log").innerHTML;  
 if(from\_log === "0") {  
 document.getElementById("log").innerHTML = "";  
 }  
 document.getElementById("log").innerHTML += from\_id;  
 }  
 function *Num6*() {  
 from\_id = document.getElementById("r6").innerHTML;  
 from\_log = document.getElementById("log").innerHTML;  
 if(from\_log === "0") {  
 document.getElementById("log").innerHTML = "";  
 }  
 document.getElementById("log").innerHTML += from\_id;  
 }  
 function *Num7*() {  
 from\_id = document.getElementById("r7").innerHTML;  
 from\_log = document.getElementById("log").innerHTML;  
 if(from\_log === "0") {  
 document.getElementById("log").innerHTML = "";  
 }  
 document.getElementById("log").innerHTML += from\_id;  
 }  
 function *Num8*() {  
 from\_id = document.getElementById("r8").innerHTML;  
 from\_log = document.getElementById("log").innerHTML;  
 if(from\_log === "0") {  
 document.getElementById("log").innerHTML = "";  
 }  
 document.getElementById("log").innerHTML += from\_id;  
 }  
 function *Num9*() {  
 from\_id = document.getElementById("r9").innerHTML;  
 from\_log = document.getElementById("log").innerHTML;  
 if(from\_log === "0") {  
 document.getElementById("log").innerHTML = "";  
 }  
 document.getElementById("log").innerHTML += from\_id;  
 }  
 function *Num0*() {  
 from\_id = document.getElementById("r0").innerHTML;  
 from\_log = document.getElementById("log").innerHTML;  
 if(from\_log === "0") {  
 document.getElementById("log").innerHTML = "";  
 }  
 document.getElementById("log").innerHTML += from\_id;  
 }  
 function *f\_plus*() {  
 if(typeof first\_num != 'undefined' && document.getElementById("log").innerHTML.length > (first\_num.length + 1)) {  
 *f\_equality*();  
 }  
 if(typeof action != 'undefined' && action !== "") {  
 document.getElementById("log").innerHTML = document.getElementById("log").innerHTML.slice(0, -1);  
 }  
 number = document.getElementById("log").innerHTML;  
 action = "+";  
 first\_num = number;  
 document.getElementById("log").innerHTML = number + action;  
  
 }  
 function *f\_minus*() {  
 if(typeof first\_num != 'undefined' && document.getElementById("log").innerHTML.length > (first\_num.length + 1)) {  
 *f\_equality*();  
 }  
 if(typeof action != 'undefined' && action !== "") {  
 document.getElementById("log").innerHTML = document.getElementById("log").innerHTML.slice(0, -1);  
 }  
 number = document.getElementById("log").innerHTML;  
 action = "-";  
 first\_num = number;  
 document.getElementById("log").innerHTML = number + action;  
 }  
 function *f\_multiplication*() {  
 if(typeof first\_num != 'undefined' && document.getElementById("log").innerHTML.length > (first\_num.length + 1)) {  
 *f\_equality*();  
 }  
 if(typeof action != 'undefined' && action !== "") {  
 document.getElementById("log").innerHTML = document.getElementById("log").innerHTML.slice(0, -1);  
 }  
 number = document.getElementById("log").innerHTML;  
 action = "×";  
 first\_num = number;  
 document.getElementById("log").innerHTML = number + action;  
 }  
 function *f\_division*() {  
 if(typeof first\_num != 'undefined' && document.getElementById("log").innerHTML.length > (first\_num.length + 1)) {  
 *f\_equality*();  
 }  
 if(typeof action != 'undefined' && action !== "") {  
 document.getElementById("log").innerHTML = document.getElementById("log").innerHTML.slice(0, -1);  
 }  
 number = document.getElementById("log").innerHTML;  
 action = "÷";  
 first\_num = number;  
 document.getElementById("log").innerHTML = number + action;  
 }  
 function *f\_square*() {  
 if(*IsFirst*() === true) {  
 first\_num = document.getElementById("log").innerHTML;  
 first\_num = Math.pow(*parseFloat*(first\_num), 2);  
 action = "";  
 document.getElementById("log").innerHTML = first\_num;  
 }  
 else {  
 second\_num = document.getElementById("log").innerHTML;  
 second\_num = second\_num.slice(*parseInt*(first\_num.length) + 1);  
 document.getElementById("log").innerHTML = first\_num + action + Math.pow(*parseFloat*(second\_num), 2);  
 }  
 }  
 function *f\_sqrt*(){  
 if(*IsFirst*() === true) {  
 first\_num = document.getElementById("log").innerHTML;  
 first\_num = Math.sqrt(*parseFloat*(first\_num));  
 action = "";  
 document.getElementById("log").innerHTML = first\_num;  
 }  
 else {  
 second\_num = document.getElementById("log").innerHTML;  
 second\_num = second\_num.slice(*parseInt*(first\_num.length) + 1);  
 document.getElementById("log").innerHTML = first\_num + action + Math.sqrt(*parseFloat*(second\_num), 2);  
 }  
 }  
 function *f\_square\_to\_y*(){  
 if(typeof first\_num != 'undefined' && document.getElementById("log").innerHTML.length > (first\_num.length + 1)) {  
 *f\_equality*();  
 }  
 if(typeof action != 'undefined' && action !== "") {  
 document.getElementById("log").innerHTML = document.getElementById("log").innerHTML.slice(0, -1);  
 }  
 number = document.getElementById("log").innerHTML;  
 action = "^";  
 first\_num = number;  
 document.getElementById("log").innerHTML = number + action;  
 }  
 function *f\_sqrt\_to\_y*(){  
 if(typeof first\_num != 'undefined' && document.getElementById("log").innerHTML.length > (first\_num.length + 1)) {  
 *f\_equality*();  
 }  
 if(typeof first\_num != 'undefined' && document.getElementById("log").innerHTML.length > (first\_num.length + 1)) {  
 *f\_equality*();  
 }  
 if(typeof action != 'undefined' && action !== "") {  
 document.getElementById("log").innerHTML = document.getElementById("log").innerHTML.slice(0, -1);  
 }  
 number = document.getElementById("log").innerHTML;  
 action = "√";  
 first\_num = number;  
 document.getElementById("log").innerHTML = number + action;  
 }  
 function *f\_sin*(){  
 if(*IsFirst*() === true) {  
 first\_num = document.getElementById("log").innerHTML;  
 check = *parseFloat*(first\_num) \* Math.PI / 180;  
 first\_num = Math.sin(*parseFloat*(check));  
 action = "";  
 document.getElementById("log").innerHTML = first\_num;  
 }  
 else {  
 second\_num = document.getElementById("log").innerHTML;  
 second\_num = second\_num.slice(*parseInt*(first\_num.length) + 1);  
 check = *parseFloat*(second\_num) \* Math.PI / 180;  
 document.getElementById("log").innerHTML = first\_num + action + Math.sin(check);  
 }  
 }  
 function *f\_cos*() {  
 if(*IsFirst*() === true) {  
 first\_num = document.getElementById("log").innerHTML;  
 check = *parseFloat*(first\_num) \* Math.PI / 180;  
 first\_num = Math.cos(check);  
 action = "";  
 document.getElementById("log").innerHTML = first\_num;  
 }  
 else {  
 second\_num = document.getElementById("log").innerHTML;  
 second\_num = second\_num.slice(*parseInt*(first\_num.length) + 1);  
 check = *parseFloat*(second\_num) \* Math.PI / 180;  
 document.getElementById("log").innerHTML = first\_num + action + Math.cos(check);  
 }  
 }  
 function *f\_tg*() {  
 if(*IsFirst*() === true) {  
 first\_num = document.getElementById("log").innerHTML;  
 check = *parseFloat*(first\_num) \* Math.PI / 180;  
 first\_num = Math.tan(check);  
 action = "";  
 document.getElementById("log").innerHTML = first\_num;  
 }  
 else {  
 second\_num = document.getElementById("log").innerHTML;  
 second\_num = second\_num.slice(*parseInt*(first\_num.length) + 1);  
 check = *parseFloat*(second\_num) \* Math.PI / 180;  
 document.getElementById("log").innerHTML = first\_num + action + Math.tan(check);  
 }  
 }  
 function *f\_log*() {  
 if(*IsFirst*() === true) {  
 first\_num = document.getElementById("log").innerHTML;  
 if(first\_num > 0) {  
 first\_num = Math.log(first\_num);  
 action = "";  
 document.getElementById("log").innerHTML = first\_num;  
 }  
 else {  
 *alert*("Данаая операция невозможна");  
 document.getElementById("log").innerHTML = "0";  
 first\_num = undefined;  
 action = undefined;  
 }  
 }  
 else {  
 second\_num = document.getElementById("log").innerHTML;  
 second\_num = second\_num.slice(*parseInt*(first\_num.length) + 1);  
 if(second\_num > 0) {  
 document.getElementById("log").innerHTML = first\_num + action + Math.log(second\_num);  
 }  
 else {  
 *alert*("Данаая операция невозможна");  
 document.getElementById("log").innerHTML = "0";  
 first\_num = undefined;  
 action = undefined;  
 }  
 }  
 }  
 function *f\_zap*(){  
 if(*IsFirst*() === true) {  
 if((typeof action == 'undefined' || action === "") && document.getElementById("log").innerHTML.includes('.') === false) {  
 document.getElementById("log").innerHTML += ".";  
 }  
 else if(action !== "" && typeof action != 'undefined'){  
 document.getElementById("log").innerHTML += "0.";  
 }  
 }  
 else {  
 second\_num = document.getElementById("log").innerHTML.slice(first\_num.length + 1);  
 if(second\_num.includes('.') === false) {  
 document.getElementById("log").innerHTML += ".";  
 }  
 }  
 }  
 function *f\_plus\_minus*(){  
 from\_log = document.getElementById("log").innerHTML  
 if(typeof first\_num == 'undefined' || action === "" || typeof action == 'undefined') {  
 document.getElementById("log").innerHTML = (*parseFloat*(from\_log) \* (-1));  
 }  
 else {  
 if(from\_log.length === (first\_num.length + 1)){  
 document.getElementById("log").innerHTML = (*parseFloat*(first\_num) \* (-1)) + action;  
 first\_num = document.getElementById("log").innerHTML.slice(0, -1);  
 }  
 else {  
 second\_num = document.getElementById("log").innerHTML.slice(first\_num.length + 1);  
 document.getElementById("log").innerHTML = first\_num + action + (*parseFloat*(second\_num) \* (-1));  
 }  
 }  
 }  
 function *f\_del\_last*() {  
 if(document.getElementById("log").innerHTML.length === "1") {  
 document.getElementById("log").innerHTML = "0";  
 }  
 else if(document.getElementById("log").innerHTML !== "0") {  
 document.getElementById("log").innerHTML = document.getElementById("log").innerHTML.slice(0, -1);  
 if(document.getElementById("log").innerHTML.length < first\_num.length) {  
 first\_num = document.getElementById("log").innerHTML;  
 }  
 }  
 }  
 function *f\_del*() {  
 document.getElementById("log").innerHTML = "0";  
 first\_num = undefined;  
 action = undefined;  
  
 }  
 function *f\_fact*(){  
 var result = 1;  
 if(*IsFirst*() === true) {  
 if(action !== "" && typeof action != 'undefined') {  
 from\_log = document.getElementById("log").innerHTML.slice(0, -1);  
 if(from\_log !== "0") {  
 for (var i = 1; i < (*parseFloat*(from\_log) + 1); i++) {  
 result \*= i;  
 }  
 }  
 else result = 0;  
 document.getElementById("log").innerHTML = result + action;  
 }  
 else {  
 from\_log = document.getElementById("log").innerHTML;  
 if(from\_log !== "0") {  
 for (var i = 1; i < (*parseFloat*(from\_log) + 1); i++) {  
 result \*= i;  
 }  
 }  
 else result = 0;  
 document.getElementById("log").innerHTML = result;  
 }  
 }  
 else {  
 second\_num = document.getElementById("log").innerHTML.slice(*parseInt*(first\_num.length) + 1);  
 if(second\_num !== "0") {  
 for (var i = 1; i < (*parseFloat*(second\_num) + 1); i++) {  
 result \*= i;  
 }  
 }  
 else result = 0;  
 document.getElementById("log").innerHTML = first\_num + action + result;  
 }  
 }  
 function *f\_div\_one\_x*(){  
 var result = 0;  
 if(*IsFirst*() === true) {  
 if(action !== "" && typeof action != 'undefined') {  
 from\_log = document.getElementById("log").innerHTML.slice(0, -1);  
 if(from\_log !== "0") {  
 result = 1 / *parseFloat*(from\_log);  
 }  
 document.getElementById("log").innerHTML = result + action;  
 }  
 else {  
 from\_log = document.getElementById("log").innerHTML;  
 if(from\_log !== "0") {  
 result = 1 / *parseFloat*(from\_log);  
 }  
 document.getElementById("log").innerHTML = result;  
 }  
 }  
 else {  
 second\_num = document.getElementById("log").innerHTML.slice(*parseInt*(first\_num.length) + 1);  
 if(second\_num !== "0") {  
 result = 1 / *parseFloat*(second\_num);  
 }  
 document.getElementById("log").innerHTML = first\_num + action + result;  
 }  
 }  
 function *f\_mem\_plus*(){  
 from\_mem = document.getElementById("memory").innerHTML;  
 from\_log = document.getElementById("log").innerHTML  
 if (from\_mem === "No memory") {  
 if (*IsFirst*() === true) {  
 if (action !== "" && typeof action != 'undefined') {  
 document.getElementById("memory").innerHTML = from\_log.slice(0, -1);  
 }  
 else {  
 document.getElementById("memory").innerHTML = from\_log;  
 }  
 }  
 else {  
 second\_num = from\_log.slice(*parseInt*(first\_num.length) + 1);  
 document.getElementById("memory").innerHTML = second\_num;  
 }  
 }  
 else {  
 if(*IsFirst*() === true) {  
 if(action !== "" && typeof action != 'undefined') {  
 document.getElementById("memory").innerHTML = *parseFloat*(from\_mem) + *parseFloat*(from\_log.slice(0, -1));  
 }  
 else {  
 document.getElementById("memory").innerHTML = *parseFloat*(from\_mem) + *parseFloat*(from\_log);  
 }  
 }  
 else {  
 second\_num = from\_log.slice(*parseInt*(first\_num.length) + 1);  
 document.getElementById("memory").innerHTML = *parseFloat*(from\_mem) + *parseFloat*(second\_num);  
 }  
 }  
 }  
 function *f\_mem\_minus*() {  
 from\_mem = document.getElementById("memory").innerHTML;  
 from\_log = document.getElementById("log").innerHTML  
 if (from\_mem === "No memory") {  
 if (*IsFirst*() === true) {  
 if (from\_log === "0") {  
 document.getElementById("memory").innerHTML = from\_log;  
 }  
 else {  
 if(action !== "" && typeof action != 'undefined') {  
 document.getElementById("memory").innerHTML = "-" + from\_log.slice(0, -1);  
 }  
 else {  
 document.getElementById("memory").innerHTML = "-" + from\_log;  
 }  
 }  
 }  
 else {  
 second\_num = from\_log.slice(*parseInt*(first\_num.length) + 1);  
 document.getElementById("memory").innerHTML = "-" + second\_num;  
 }  
 }  
 else {  
 if(*IsFirst*() === true) {  
 if(action !== "" && typeof action != 'undefined') {  
 document.getElementById("memory").innerHTML = *parseFloat*(from\_mem) - *parseFloat*(from\_log.slice(0, -1));  
 }  
 else {  
 document.getElementById("memory").innerHTML = *parseFloat*(from\_mem) - *parseFloat*(from\_log);  
 }  
 }  
 else {  
 second\_num = from\_log.slice(*parseInt*(first\_num.length) + 1);  
 document.getElementById("memory").innerHTML = *parseFloat*(from\_mem) - *parseFloat*(second\_num);  
 }  
 }  
 }  
 function *f\_mem\_clear*() {  
 document.getElementById("memory").innerHTML = "No memory";  
 }  
 function *f\_mem\_reader*() {  
 from\_mem = document.getElementById("memory").innerHTML;  
 from\_log = document.getElementById("log").innerHTML  
 if (from\_mem === "No memory") {  
 if (*IsFirst*() === true) {  
 if (action !== "" && typeof action != 'undefined') {  
 document.getElementById("memory").innerHTML = from\_log.slice(0, -1);  
 }  
 else {  
 document.getElementById("memory").innerHTML = from\_log;  
 }  
 }  
 else {  
 second\_num = from\_log.slice(*parseInt*(first\_num.length) + 1);  
 document.getElementById("memory").innerHTML = second\_num;  
 }  
 }  
 else {  
 if(*IsFirst*() === true) {  
 if(action !== "" && typeof action != 'undefined') {  
 document.getElementById("log").innerHTML = first\_num + action + from\_mem;  
 }  
 else {  
 first\_num = from\_mem;  
 document.getElementById("log").innerHTML = first\_num;  
 }  
 }  
 else {  
 document.getElementById("log").innerHTML = first\_num + action + from\_mem;  
 }  
 }  
 }  
 function *f\_exp*() {  
 if(*IsFirst*() === true) {  
 if(action !== "" && typeof action !== 'undefined') {  
 document.getElementById("log").innerHTML = first\_num + action + Math.exp(1);  
 }  
 else {  
 first\_num = Math.exp(1);  
 document.getElementById("log").innerHTML = first\_num;  
 }  
 }  
 else {  
 document.getElementById("log").innerHTML = first\_num + action + Math.exp(1);  
 }  
 }  
 function *f\_pi*() {  
 if(*IsFirst*() === true) {  
 if(action !== "" && typeof action !== 'undefined') {  
 document.getElementById("log").innerHTML = first\_num + action + Math.PI;  
 }  
 else {  
 first\_num = Math.PI;  
 document.getElementById("log").innerHTML = first\_num;  
 }  
 }  
 else {  
 document.getElementById("log").innerHTML = first\_num + action + Math.PI;  
 }  
 }  
 function *f\_equality*() {  
 second\_num = document.getElementById("log").innerHTML;  
 second\_num = second\_num.slice(*parseInt*(first\_num.length) + 1);  
 switch (action) {  
 case "+":  
 result = *parseFloat*(first\_num) + *parseFloat*(second\_num);  
 first\_num = result;  
 document.getElementById("log").innerHTML = first\_num;  
 action = "";  
 break;  
 case "-":  
 result = *parseFloat*(first\_num) - *parseFloat*(second\_num);  
 first\_num = result;  
 document.getElementById("log").innerHTML = first\_num;  
 action = "";  
 break;  
 case "×":  
 if(first\_num !== "0" && second\_num !== "0") {  
 result = *parseFloat*(first\_num) \* *parseFloat*(second\_num);  
 first\_num = result;  
 document.getElementById("log").innerHTML = first\_num;  
 action = "";  
 break;  
 }  
 else {  
 first\_num = "0";  
 document.getElementById("log").innerHTML = first\_num;  
 action = "";  
 break  
 }  
 case "÷":  
 if(second\_num !== "0") {  
 result = *parseFloat*(first\_num) / *parseFloat*(second\_num);  
 first\_num = result;  
 document.getElementById("log").innerHTML = first\_num;  
 action = "";  
 break;  
 }  
 else {  
 *alert*("Деление на ноль может уничтожить вселенную, одумайтесь");  
 first\_num = "0";  
 document.getElementById("log").innerHTML = first\_num;  
 action = "";  
 break;  
 }  
 case "^":  
 result = Math.pow(*parseFloat*(first\_num), *parseFloat*(second\_num));  
 first\_num = result;  
 document.getElementById("log").innerHTML = first\_num;  
 action = "";  
 break;  
 case "√":  
 if(first\_num > 0) {  
 result = Math.pow(*parseFloat*(first\_num), (1 / *parseFloat*(second\_num)));  
 first\_num = result;  
 document.getElementById("log").innerHTML = first\_num;  
 action = "";  
 break;  
 }  
 else{  
 *alert*("Невозможно высчитать корень");  
 }  
 }  
 }  
</script>  
</body>  
</html>