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ÜBUNG: Arithm. Operatoren
Gegeben seien:
       c1='5', c2=25, c3, c4=-1;
   char
        i=5, j=9, k=-15, m, n, p, q;
   double d1=12.5, d2=2.0E-3, d3=-100, d4, d5, d6;
Berechnen Sie
   m = d1*i;
   d4 = 9/2;
   n = k%4;
   j = j+1;
   p = d2*750 + 0.1;
   d5 = (double)j/i + 0.2;
   q = (unsigned char)c4;
   d6 = 22\%5*3\%2;
   c3 = (c1-0x30)+c2;
   c3 = 64*8;
Welche Ausdrücke zeugen von schlechtem Stil?
      d1/i = 12.5 * 5 \longrightarrow (int) 62.5 = 62 = m 4
  • 9/2 = 4 \rightarrow 34 = 4.0
  · N = K % H = -3
  · j = j+1 = 10
    d2 + 750 + 0.1 = 0.002 + 750 + 0.1 = 1.6
                      -> p = (int) 1.6 = 1
   · d5 = (double) j / i + 0.2 = 9.0/5 + 0.2 = 1.8 + 0.2
         = 2.0
   · cf = (unsigned da) -1 = 255
   · 22% 5 * 3%2 = 2 * 3%2 = 6% 2 = 0 = 165
   • (cA - 0x30) + C2 = (0x35 - 0x30) + 25 = 30 = C3
   · 64 +8 = 512 → (chor) 512 = 0 = 63 4
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ÜBUNG Vergleichsoperatoren, log. Operatoren
   Was ergeben folgende Ausdrücke:
   char b1, b2, b3, b4, b5, b6, b7;
   int Zahl=7, Z2=25;
   b1 = !(Zahl > 10) && !(Zahl < 5);
   b2 = (Zahl <= 10) && (Zahl >= 5);
   b3 = Zahl <= 10 && Zahl >= 5;
   b4 = (Zahl - 10) && (Zahl - 7);
   b5 = 5 \le 22 \le 10;
   b6 = 5 \le 22 \&\& 22 \le 10;
   b7 = !(Zahl=7);
   b8 = !(Zahl < 10) || Zahl==7 || !(Zahl-7);
 ! (7 > 10) &&!(7 < 5) = !0 &&!0 = 1 && 1 =1
   bessx: b1 = (tall = 10) && (tall = 5)
 S. O.
• 63 = 1 less les bor dud Klammern
 b4 = (7-10) && (7-7) = (-3) && 0 = 0
\rightarrow Typ kuddelmuddel wahr folsk
• 65 = 5 \le 22 \le 10 = (5 \le 25) \le 10
= 1 \le 10 = 1 Wohr \Rightarrow unsinning \frac{4}{5}
. 66 = 5 ≤ 22 20 22 ≤ 10 = 5 ≤ 25 &8 25 ≤ 10
     = 1 & & 0 = 0 bls x Klammarn
• b7 = !(2all = 7) = !(7) = 0 Typ-Kuddilmuddil y
 68 = ! (7<10) || (7 = = 7) || ! (7-7)
      = 0 11 1 11 ! 0 = 1 Typ - Kuddul muddel
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