[Declarations]

[mca]: flatten
  [c3f]: induction j in z42
    [3da]: scatter
      [s3k]: proved (CVCL)
    [4da]: scatter
      [jdt]: auto
        [4kl]: proved (CVCL)

[Declarations]

[bca]: expand Input, Invariant in ne5
  [fuo]: scatter
    [bxg]: proved (CVCL)
    [cxg]: typeaxiom a in length
      [3zf]: proved (CVCL)
    [dxg]: proved (CVCL)
    [exg]: auto
      [khw]: proved (CVCL)

[Declarations]

[p1b]: instantiate low/2+high/2 in 6hu
  [lf6]: expand Invariant
    [p6i]: scatter
      [l3h]: proved (CVCL)
      [m3h]: proved (CVCL)
      [n3h]: proved (CVCL)
      [o3h]: auto
        [e1h]: proved (CVCL)
      [p3h]: proved (CVCL)
  [mf6]: proved (CVCL)

[Declarations]

[q1b]: instantiate low/2+high/2 in 6hu
  [slx]: expand Invariant
    [a1y]: scatter
      [cch]: proved (CVCL)
      [dch]: lemma L
        [xmk]: auto z42
          [d45]: proved (CVCL)
      [ech]: auto
        [5la]: proved (CVCL)
      [fch]: proved (CVCL)
      [gch]: proved (CVCL)
      [hch]: proved (CVCL)
  [tlx]: proved (CVCL)

[Declarations]

[r1b]: instantiate low/2+high/2 in 6hu
  [zrp]: expand Invariant
    [rui]: scatter
      [zhg]: auto
        [r5c]: proved (CVCL)
      [1hg]: proved (CVCL)
      [2hg]: lemma L
        [63o]: instantiate j_0, floor(low/2+high/2) in z42
          [25c]: proved (CVCL)
          [35c]: auto
            [g6q]: proved (CVCL)
      [3hg]: proved (CVCL)
      [4hg]: auto
        [n21]: proved (CVCL)
      [5hg]: proved (CVCL)
  [1rp]: proved (CVCL)

[Declarations]

[dca]: expand Invariant, Output in azp
  [tvy]: scatter
    [dcu]: auto
      [t4c]: proved (CVCL)
    [ecu]: split pkg
      [kel]: proved (CVCL)
      [lel]: scatter
        [lvn]: auto
          [lap]: proved (CVCL)