```
int   i=0;
int   j=1;
int   k=2;
int   h=3;

int   function()
  {
  switch(i)
      {
      case  3:    j=k+h;      break;
      case  4:    j=k-h;      break;
      case  5:    j=k&h;      break;
      case  6:    j=k|h;      break;
      case  7:    j=k^h;      break;
      case  8:    j=k-2*h;    break;
      case  9:    j=k+2*h;    break;
      }
  }
------------------------------------
.sdata

      .globl      i
      .globl      j
      .globl      k
      .globl      h

      .align      2
i:    .word 0
j:    .word 1
k:    .word 2
h:    .word 3

.rdata
      .align      3
$L10:
      .word $L3
      .word $L4
      .word $L5
      .word $L6
      .word $L7
      .word $L8
      .word $L9

.text

      .align      2
      .globl      foo

function:   subu  $sp,$sp,8
      sw    $fp,0($sp)
      move  $fp,$sp
      lw    $3,i
      subu  $2,$3,3
      sltu  $3,$2,7
      beq   $3,$0,$L11
      sll   $3,$2,2
      la    $4,$L10
      addu  $2,$3,$4
      lw    $3,0($2)
      j     $3

$L3:
      lw    $2,k
      lw    $3,h
      addu  $2,$2,$3
      sw    $2,j
      j     $L2
$L4:
      lw    $2,k
      lw    $3,h
      subu  $2,$2,$3
      sw    $2,j
      j     $L2
$L5:
      lw    $2,k
      lw    $3,h
      and   $2,$2,$3
      sw    $2,j
      j     $L2
$L6:
      lw    $2,k
      lw    $3,h
      or    $2,$2,$3
      sw    $2,j
      j     $L2
$L7:
      lw    $2,k
      lw    $3,h
      xor   $2,$2,$3
      sw    $2,j
      j     $L2
$L8:
      lw    $2,h
      move  $3,$2
      sll   $2,$3,1
      lw    $3,k
      subu  $2,$3,$2
      sw    $2,j
      j     $L2
$L9:
      lw    $2,h
      move  $3,$2
      sll   $2,$3,1
      lw    $3,k
      addu  $2,$3,$2
      sw    $2,j
      j     $L2
$L11:
$L2:
$L1:
      move  $sp,$fp
      lw    $fp,0($sp)
      addu  $sp,$sp,8
      j     $31
```