```
int  T1 = -1, T2 = -1, c1 = 0, c2 = 0, T3 = 0, d1 = 0;
#define  MAX  7
void  insert (int  stck[], int ch)
{  int  ele;
   if ( ch == 1)
   {  if ( T1 == MAX - 1)
         printf("\nStack Overflow ");
      else
         { stck [++T1] = ele; c1 ++; }
   }

   else if (ch == 2)
   {  if ( T2 == MAX - 1)
         printf(" \n stack Overflow ");
      else
         { stck [++T2] = ele; c2 ++;
   }
}


int  delete ( int  stck[], int ch)
{  int  ele = 1 ;
   if (ch == 2)
   { if (T2 != -1)

      {  printf(" Popped : %d ", stck [T2]);
         ele = stck [T2--]; }
   }
   if (ch == 1 && d1 < T1)
   { printf(" Popped : %d ", stck [ d1]);
     ele = stck [d1 ++];
   }
   return  ele;
}
```

Derek

```
void  Merge ( int  stck1[], int stck2[])
{ int  stck3 [MAX]; ele1 , ele2 ;
    if ( c1 > c2 )
    { for (int i=0 ;  i < c1 ; i++)
      { ele1 = delete (stck1, 1 );
        ele2 = delete ( stck2, 2 );
        stck3 [T3++]= ele1 + ele2 ;
        printf (" %d \t ", stck [T3-1];
      }

    }

    else
    { for ( int i=0 ; i < c2 ; i++)
      { ele1 = delete (stck1, 1);
        ele2 = delete (stck2, 2);
        stck3[T3++] = ele1 + ele2 ;
        printf (" %d \t ", stck [T3-1];
      }
    }
}
```