PERFORM MAINT FILE NAME/TYPE= STDIN
PERFORM MAINT
PERFORM MAINT CREATION DATE/TIME= 15-11-2025 22:00:12
PERFORM MAINT
PERFORM MAINT FILE= 001 PAGES= 0001 LINES= 000015
PERFORM MAINT
PERFORM MAINT SYSTEM= LINUX(6.16.8+KALI-AMD64)
PERFORM MAINT
PERFORM MAINT SYSID= ACID SYSUSER= ACID
PERFORM MAINT
PERFORM MAINT FORM= WIDE
PERFORM MAINT
PERFORM MAINT CHAR= FONTMONO
PERFORM MAINT
PERFORM MAINT PRT1403 VERSION= 1.5.PRE-RELEASE

```
                                M       M    AAA     IIIIII   N      NN TTTTTTTT
                                MM     MM   AAAAA    IIIIII   NN     NN TTTTTTTT
                                MMM   MMM  AA   AA     II     NNN    NN    TT
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                                MM MMM MM AA     AA    II     NN NN  NN    TT
                                MM  M  MM AAAAAAAAA    II     NN  NN NN    TT
                                MM     MM AAAAAAAAA    II     NN   NNNN    TT
                                MM     MM AA     AA    II     NN    NNN    TT
                                MM     MM AA     AA  IIIIII   NN     NN    TT
                                MM     MM AA     AA  IIIIII   NN      N    TT


                      PPPPPPPP  EEEEEEEEE RRRRRRRR  FFFFFFFFF  OOOOOOO  RRRRRRRR  M       M
                      PPPPPPPPP EEEEEEEEE RRRRRRRRR FFFFFFFFF OOOOOOOOO RRRRRRRRR MM     MM
                      PP     PP EE        RR     RR FF        OO     OO RR     RR MMM   MMM
                      PP     PP EE        RR     RR FF        OO     OO RR     RR MMMM MMMM
                      PPPPPPPPP EEEEEEEEE RRRRRRRRR FFFFFFFFF OO     OO RRRRRRRRR MM MMM MM
                      PPPPPPPP  EEEEEEEEE RRRRRRRR  FFFFFFFFF OO     OO RRRRRRRR  MM  M  MM
                      PP        EE        RR  RR    FF        OO     OO RR  RR    MM     MM
                      PP        EE        RR   RR   FF        OO     OO RR   RR   MM     MM
                      PP        EEEEEEEEE RR    RR  FF        OOOOOOOOO RR    RR  MM     MM
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                                00     00 00     00   11
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                                00     00 00     00   11
                                 0000000   0000000  111111
                                  00000     00000   111111
```

```python
import time

def sum_integers():
    total = 0
    for i in range(1, 10**7):
        total += i
    return total

start_time = time.time()
result = sum_integers()
end_time = time.time()

print(f"Python: The sum is {result}")
print(f"Python: Time taken = {end_time - start_time} seconds")
```

```
************************************************************************************************************************************
 -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -  -
************************************************************************************************************************************
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DATE: 15-11-2025 22:00:12     USER: MAINT       JOB: PERFORM                                                             PAGE: 0000



PERFORM   MAINT      FILE NAME/TYPE= STDIN
PERFORM   MAINT
PERFORM   MAINT      CREATION DATE/TIME= 15-11-2025 22:00:12
PERFORM   MAINT
PERFORM   MAINT      FILE= 002   PAGES= 0001   LINES= 000018
PERFORM   MAINT
PERFORM   MAINT      SYSTEM= LINUX(6.16.8+KALI-AMD64)
PERFORM   MAINT
PERFORM   MAINT      SYSID= ACID   SYSUSER= ACID
PERFORM   MAINT
PERFORM   MAINT      FORM= WIDE
PERFORM   MAINT
PERFORM   MAINT      CHAR= FONTMONO
PERFORM   MAINT
PERFORM   MAINT      PRT1403 VERSION= 1.5.PRE-RELEASE



                                         M       M    AAA     IIIIII   N       NN TTTTTTTT
                                         MM     MM   AAAAA    IIIIII   NN      NN TTTTTTTT
                                         MMM   MMM  AA   AA     II     NNN     NN    TT
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                                         MM MMM MM AA     AA    II     NN NN   NN    TT
                                         MM  M  MM AAAAAAAAA    II     NN  NN NN    TT
                                         MM     MM AAAAAAAAA    II     NN   NNNN    TT
                                         MM     MM AA     AA    II     NN    NNN    TT
                                         MM     MM AA     AA  IIIIII   NN     NN    TT
                                         MM     MM AA     AA  IIIIII   NN      N    TT



                               PPPPPPPP  EEEEEEEEE RRRRRRRR  FFFFFFFFF  OOOOOOO  RRRRRRRR  M       M
                               PPPPPPPPP EEEEEEEEE RRRRRRRRR FFFFFFFFF OOOOOOOOO RRRRRRRRR MM     MM
                               PP     PP EE        RR     RR FF        OO     OO RR     RR MMM   MMM
                               PP     PP EE        RR     RR FF        OO     OO RR     RR MMMM MMMM
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                               PPPPPPPP  EEEEEEEEE RRRRRRRR  FFFFFFFFF OO     OO RRRRRRRR  MM  M  MM
                               PP        EE        RR  RR    FF        OO     OO RR  RR    MM     MM
                               PP        EE        RR   RR   FF        OO     OO RR   RR   MM     MM
                               PP        EEEEEEEEE RR    RR  FF        OOOOOOOOO RR    RR  MM     MM
                               PP        EEEEEEEEE RR     RR FF         OOOOOOO  RR     RR MM     MM



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                                                 00     00 00     00   22
                                                  0000000   0000000   22222222
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************************************************************************************************************************************
************************************************************************************************************************************
************************************************************************************************************************************
```

```
program performance_test
    implicit none
    integer :: i, total
    real(8) :: start_time, end_time

    total = 0
    call cpu_time(start_time)

    do i = 1, 10000000
        total = total + i
    end do

    call cpu_time(end_time)

    print *, "Fortran: The sum is ", total
    print *, "Fortran: Time taken = ", end_time - start_time
end program performance_test
```

PERFORM MAINT FILE NAME/TYPE= STDIN
PERFORM MAINT
PERFORM MAINT CREATION DATE/TIME= 15-11-2025 22:00:12
PERFORM MAINT
PERFORM MAINT FILE= 003 PAGES= 0001 LINES= 000022
PERFORM MAINT
PERFORM MAINT SYSTEM= LINUX(6.16.8+KALI-AMD64)
PERFORM MAINT
PERFORM MAINT SYSID= ACID SYSUSER= ACID
PERFORM MAINT
PERFORM MAINT FORM= WIDE
PERFORM MAINT
PERFORM MAINT CHAR= FONTMONO
PERFORM MAINT
PERFORM MAINT PRT1403 VERSION= 1.5.PRE-RELEASE

```
                                M       M    AAA     IIIIII   N      NN TTTTTTTT
                                MM     MM   AAAAA    IIIIII   NN     NN TTTTTTTT
                                MMM   MMM  AA   AA     II     NNN    NN    TT
                                MMMM MMMM AA     AA    II     NNNN   NN    TT
                                MM MMM MM AA     AA    II     NN NN  NN    TT
                                MM  M  MM AAAAAAAAA    II     NN  NN NN    TT
                                MM     MM AAAAAAAAA    II     NN   NNNN    TT
                                MM     MM AA     AA    II     NN    NNN    TT
                                MM     MM AA     AA  IIIIII   NN     NN    TT
                                MM     MM AA     AA  IIIIII   NN      N    TT


                      PPPPPPPP  EEEEEEEEE RRRRRRRR  FFFFFFFFF  OOOOOOO  RRRRRRRR  M       M
                      PPPPPPPPP EEEEEEEEE RRRRRRRRR FFFFFFFFF OOOOOOOOO RRRRRRRRR MM     MM
                      PP     PP EE        RR     RR FF        OO     OO RR     RR MMM   MMM
                      PP     PP EE        RR     RR FF        OO     OO RR     RR MMMM MMMM
                      PPPPPPPPP EEEEEEEEE RRRRRRRRR FFFFFFFFF OO     OO RRRRRRRRR MM MMM MM
                      PPPPPPPP  EEEEEEEEE RRRRRRRR  FFFFFFFFF OO     OO RRRRRRRR  MM  M  MM
                      PP        EE        RR  RR    FF        OO     OO RR  RR    MM     MM
                      PP        EE        RR   RR   FF        OO     OO RR   RR   MM     MM
                      PP        EEEEEEEEE RR    RR  FF        OOOOOOOOO RR    RR  MM     MM
                      PP        EEEEEEEEE RR     RR FF         OOOOOOO  RR     RR MM     MM


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                                00     00 00     00 33     33
                                00     00 00     00        33
                                00     00 00     00      333
                                00     00 00     00      333
                                00     00 00     00        33
                                00     00 00     00 33     33
                                 0000000   0000000  333333333
                                  00000     00000    3333333
```

```c
#include <stdio.h>
#include <time.h>

int main() {
    long i;
    long total = 0;
    clock_t start_time, end_time;

    start_time = clock();

    for (i = 1; i < 10000000; i++) {
        total += i;
    }

    end_time = clock();

    printf("C: The sum is %ld\n", total);
    printf("C: Time taken = %lf seconds\n", (double)(end_time - start_time) / CLOCKS_PER_SEC);

    return 0;
}
```