

DATE: 15-11-2025 21:23:55 USER: MAINT JOB: PERFORM

PAGE: 0000

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```
PERFORM MAINT      FILE NAME/TYPE= STDIN
PERFORM MAINT
PERFORM MAINT      CREATION DATE/TIME= 15-11-2025 21:23:55
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
```

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M	M	AAA	IIIIII	N	NN	TTTTTTTT
MM	MM	AAAAAA	IIIIII	NN	NN	TTTTTTTT
MMM	MMM	AA AA	II	NNN	NN	TT
MMMM	MMMM	AA AA	II	NNNN	NN	TT
MM	MM	MM AA	II	NN NN	NN	TT
MM	M	MM AAAAAAAAAA	II	NN NN NN	NN	TT
MM	MM	AAAAAAAAAA	II	NN NNNN	NN	TT
MM	MM	AA AA	II	NN NNN	NN	TT
MM	MM	AA AA	IIIIII	NN NN	NN	TT
MM	MM	AA AA	TTTTTT	NN N	NN	TT

PPPPPPPP	EEEEEEEEE	RRRRRRRR	FFFFFFFFF	0000000	RRRRRRRR	M	M				
PPPPPPPPPP	EEEEEEEEE	RRRRRRRRR	FFFFFFFFF	000000000	RRRRRRRRR	MM	MM				
PP	PP	EE	RR	RR	FF	00	00	RR	RR	MMM	MMM
PP	PP	EE	RR	RR	FF	00	00	RR	RR	MMMM	MMMM
PPPPPPPPPP	EEEEEEEEE	RRRRRRRRR	FFFFFFFFF	00	00	RRRRRRRR	MM	MM	MM	MM	MM
PPPPPPPP	EEEEEEEEE	RRRRRRRR	FFFFFFFFF	00	00	RRRRRRRR	MM	M	M	MM	MM
PP	EE	RR	RR	FF	00	00	RR	RR	MM	MM	MM
PP	EE	RR	RR	FF	00	00	RR	RR	MM	MM	MM
PP	EEEEEEEEE	RR	RR	FF	0000000000	RR	RR	MM	MM	MM	MM

00000	00000	1
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```
1 import time
2
3 def sum_integers():
4     total = 0
5     for i in range(1, 10**7):
6         total += i
7     return total
8
9 start_time = time.time()
10 result = sum_integers()
11 end_time = time.time()
12
13 print(f"Python: The sum is {result}")
14 print(f"Python: Time taken = {end_time - start_time} seconds")
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PAGE: 0000

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1 PERFORM MAINT      FILE NAME/TYPE= STDIN
2 PERFORM MAINT
3 PERFORM MAINT      CREATION DATE/TIME= 15-11-2025 21:23:55
4 PERFORM MAINT
5 PERFORM MAINT      FILE= 002      PAGES= 0001      LINES= 000018
6 PERFORM MAINT
7 PERFORM MAINT      SYSTEM= LINUX(6.16.8+KALI-AMD64)
8 PERFORM MAINT
9 PERFORM MAINT      SYSID= ACID      SYSUSER= ACID
10 PERFORM MAINT
11 PERFORM MAINT      FORM= WIDE
12 PERFORM MAINT
13 PERFORM MAINT      CHAR= FONTMONO
14 PERFORM MAINT
15 PERFORM MAINT      PRT1403 VERSION= 1.5.PRE-RELEASE
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	M	M	AAA	IIIIII	N	NN	TTTTTTTT	
	MM	MM	AAAAAA	IIIIII	NN	NN	TTTTTTTT	
	MMM	MMM	AA AA	II	NNN	NN	TT	
	MMMM	MMMM	AA AA	II	NNNN	NN	TT	
	MM	MM	AA AA	II	NN	NN	TT	
	MM	M	MM	AAAAAAAAAA	II	NN	NN NN	TT
	MM	MM	AAAAAA	II	NN	NNNN	TT	
	MM	MM	AA AA	II	NN	NNN	TT	
	MM	MM	AA AA	IIIIII	NN	NN	TT	
	MM	MM	AA AA	TTTTTT	NN	N	TT	

PPPPPPP	EEEEEEE	RRRRRRR	FFFFFFF	0000000	RRRRRRR	M	M				
PPPPPPPP	EEEEEEE	RRRRRRRR	FFFFFFF	000000000	RRRRRRRR	MM	MM				
PP	PP	EE	RR	RR	FF	00	00	RR	RR	MM	MM
PP	PP	EE	RR	RR	FF	00	00	RR	RR	MM	MM
PPPPPPPP	EEEEEEE	RRRRRRRR	FFFFFFF	00	00	RRRRRRRR	MM	MM	MM	MM	MM
PPPPPPPP	EEEEEEE	RRRRRRRR	FFFFFFF	00	00	RRRRRRRR	MM	M	M	MM	MM
PP	EE	RR	RR	FF	00	00	RR	RR	MM	MM	MM
PP	EE	RR	RR	FF	00	00	RR	RR	MM	MM	MM
PP	EEEEEEE	RR	RR	FF	000000000	RR	RR	MM	MM	MM	MM

		00000	00000	2222222
		0000000	0000000	222222222
	00	00 00	00 22	22
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		00 00 00	00	22
		00 00 00	00	22
		00 00 00	00	22
		0000000	0000000	22222222
		00000	00000	222222222

```
1 program performance_test
2 implicit none
3 integer :: i, total
4 real(8) :: start_time, end_time
5
6 total = 0
7 call cpu_time(start_time)
8
9 do i = 1, 10000000
10    total = total + i
11 end do
12
13 call cpu_time(end_time)
14
15 print *, "Fortran: The sum is ", total
16 print *, "Fortran: Time taken = ", end_time - start_time
17 end program performance_test
```

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1 PERFORM MAINT      FILE NAME/TYPE= STDIN
2 PERFORM MAINT
3 PERFORM MAINT      CREATION DATE/TIME= 15-11-2025 21:23:55
4 PERFORM MAINT
5 PERFORM MAINT      FILE= 003      PAGES= 0001      LINES= 000022
6 PERFORM MAINT
7 PERFORM MAINT      SYSTEM= LINUX(6.16.8+KALI-AMD64)
8 PERFORM MAINT
9 PERFORM MAINT      SYSID= ACID      SYSUSER= ACID
10 PERFORM MAINT
11 PERFORM MAINT      FORM= WIDE
12 PERFORM MAINT
13 PERFORM MAINT      CHAR= FONTMONO
14 PERFORM MAINT
15 PERFORM MAINT      PRT1403 VERSION= 1.5.PRE-RELEASE
```

	M	M	AAA	IIIIII	N	NN	TTTTTTTT	
	MM	MM	AAAAAA	IIIIII	NN	NN	TTTTTTTT	
	MMM	MMM	AA AA	II	NNN	NN	TT	
	MMMM	MMMM	AA AA	II	NNNN	NN	TT	
	MM	MM	AA AA	II	NN	NN	TT	
	MM	M	MM	AAAAAAAAAA	II	NN	NN NN	TT
	MM	MM	AAAAAA	II	NN	NNNN	TT	
	MM	MM	AA AA	II	NN	NNN	TT	
	MM	MM	AA AA	IIIIII	NN	NN	TT	
	MM	MM	AA AA	TTTTTT	NN	N	TT	

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4      PPPPPPPP EEEEEEEE RRRRRRRR FFFFFFFF 0000000 RRRRRRRR M   M
5      PPPPPPPP EEEEEEEE RRRRRRRR FFFFFFFF 00000000 RRRRRRRR MM  MM
6      PP    PP EE     RR    RR FF    00    00 RR    RR MMM  MMM
7      PP    PP EE     RR    RR FF    00    00 RR    RR MMMM  MMMM
8      PPPPPPPP EEEEEEEE RRRRRRRR FFFFFFFF 00    00 RRRRRRRR MM  MMM  MM
9      PPPPPPPP EEEEEEEE RRRRRRRR FFFFFFFF 00    00 RRRRRRRR MM  M  MMM
0      PP    EE     RR    RR FF    00    00 RR    RR MM  MM
1      PP    EE     RR    RR FF    00    00 RR    RR MM  MM
2      PP    EEEEEEEE RR    RR FF 0000000000 RR    RR MM  MM

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	00000	00000	3333333
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	00	00 00	00
	0000000	0000000	333333333
	00000	00000	3333333

```
1 #include <stdio.h>
2 #include <time.h>
3
4 int main() {
5     long i;
6     long total = 0;
7     clock_t start_time, end_time;
8
9     start_time = clock();
10
11    for (i = 1; i < 10000000; i++) {
12        total += i;
13    }
14
15    end_time = clock();
16
17    printf("C: The sum is %ld\n", total);
18    printf("C: Time taken = %lf seconds\n", (double)(end_time - start_time) / CLOCKS_PER_SEC);
19
20    return 0;
21}
```