

1000	fe,01,01,13	add sp,sp,-32
1004	00,11,2e,23	sw ra,28(sp)
1008	00,01,26,23	sw zero,12(sp)
1012	00,10,07,93	li a5,1
1016	00,f1,20,23	sw a5,0(sp)
1020	00,20,07,93	li a5,2
1024	00,f1,22,23	sw a5,4(sp)
1028	00,30,07,93	li a5,3
1032	00,f1,24,23	sw a5,8(sp)
1036	00,01,07,93	mv __, __
1040	00,30,05,93	li __, __
1044	00,07,85,13	mv __, __
1048	01,c0,00,ef	jal _____
1052	00,a1,26,23	sw a0, _____
1056	00,c1,27,83	lw a5,12(sp)
1060	00,07,85,13	mv a0,a5
1064	01,c1,20,83	lw ra,28(sp)
1068	02,01,01,13	add sp,sp,32
1072	00,00,00,67	ret

```
int main(void) {
    int x = 0;
    int data[3] = {1,2,3};

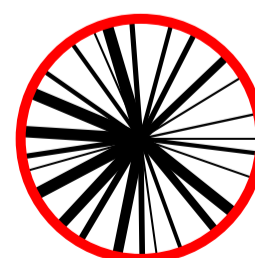
    x = add(data, 3);

    return x;
}
```

1076	fe,01,01,13	add sp,sp,-32
1080	00,a1,26,23	sw a0,12(sp)
1084	00,b1,24,23	sw a1,8(sp)
1088	00,01,2e,23	sw zero,28(sp)
1092	00,01,2c,23	sw zero,24(sp)
1096	03,00,00,6f	j 1144
1100	01,81,27,83	lw a5,24(sp)
1104	00,27,97,93	sll a5,a5,2
1108	00,c1,27,83	lw a4,12(sp)
1112	00,f7,07,b3	add a5,a4,a5
1116	00,07,a7,83	lw a5,0(a5)
1120	01,c1,27,83	lw a4,28(sp)
1124	00,f7,07,b3	add a5,a4,a5
1128	00,f1,2e,23	sw a5,28(sp)
1132	01,81,27,83	lw a5,24(sp)
1136	00,17,87,93	add a5,a5,1
1140	00,f1,2c,23	sw a5,24(sp)
1144	01,81,27,83	lw a4,24(sp)
1148	00,81,27,83	lw a5,8(sp)
1152	fc,f7,46,e3	blt a4,a5,1100
1156	01,c1,27,83	lw a5,28(sp)
1160	00,07,85,13	mv a0,a5
1164	02,01,01,13	add sp,sp,32
1168	00,00,00,67	ret

```
int add(int *arr, int n) {
    int r = 0;
    for (int i = 0; i < n; i++) {
        r += arr[i];
    }

    return r;
}
```



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 file: code/l1-call-function-7.c