Implement a program in C to find the sum of the main diagonal elements of a matrix.

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Code-
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#include <stdio.h>
#define m 3
#define n 3
int sum(int[m][n],int);
int main()
{
int a[m][n],i,j;
printf("Write elements of 3*3 matrix");
for(i=0;i<m;i++)
 for(j=0;j< n;j++)
 scanf("%d",&a[i][j]);
sum(a,m);
return 0;
}
int sum(int x[m][n],int r)
int i=0,s=0;
while(i<r)
s=s+x[i][i];
i++;
}
printf("Sum of diagonal elements=%d",s);
return 0;
}
Input-
Write elements of 3*3 matrix1
2
3
4
5
6
7
8
```

Output-

9

Sum of diagonal elements=15