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

int main( void )
{
long i; /* loop counter */
int j; /* loop counter */
int x; /* first die */
int y; /* second die */
int sum[ 13 ] = { 0 }; /* count occurrences of each combination */
int count=0;




srand( time( NULL ) ); /* seed random number generator */

/* roll dice 36,000 times */
for ( i = 1; i <= 36000; i++ ) {
x = 1 + rand() % 6;
y = 1 + rand() % 6;
++sum[ x + y ];
} /* end for */



/* display results of rolling dice */
for ( j = 2; j <= 12; j++ ) {
printf("%d\t%d \t",j,sum[j]);
count=sum[j]/500;
for(int k=1;k<=count;k++)
{
    printf("*");
}
printf("\n");

} /* end for */
```
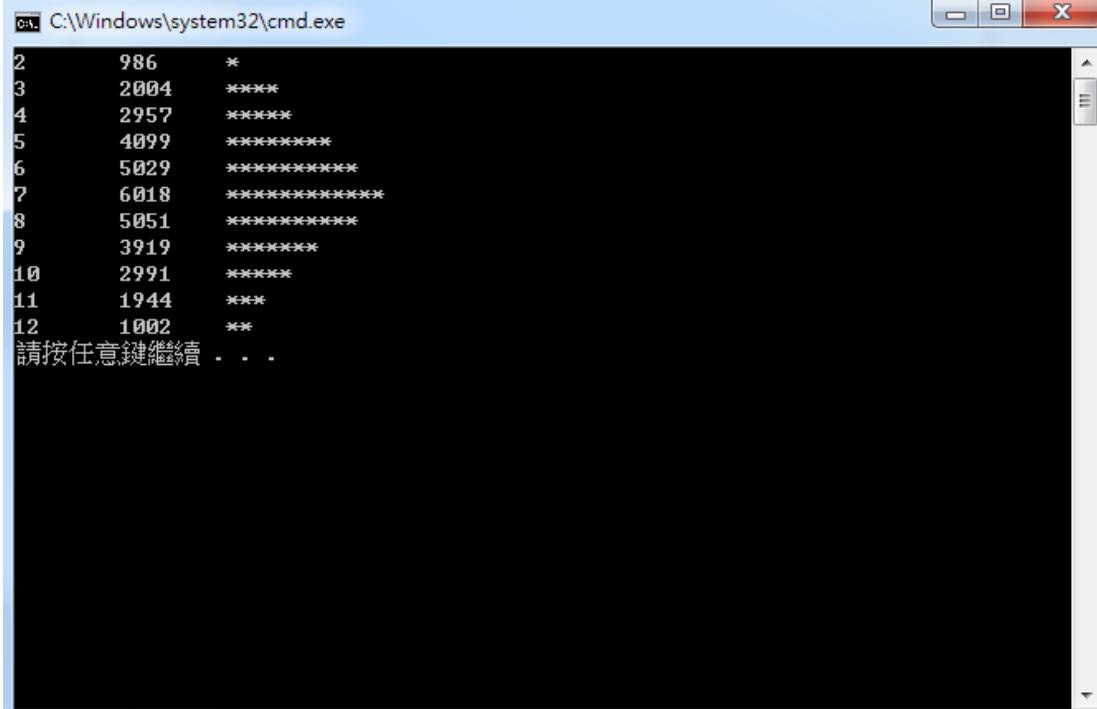
```
return 0; /* indicate successful termination */

} /* end main */
```