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1.

#include<iostream>

using namespace std;

int main()

{

for(int i = 1; i <= 6; i++)

{

for (int j = 1; j <= i ; j++)

cout << "\*";

cout << endl;

}

cout << endl;

return 0;

}

2.

#include<iostream>

using namespace std;

int main()

{

int row,col;

for(row=1;row<=4;row++)

{

for(col=1;col<=row;col++)

{

cout<<"\*";

}

cout<<endl;

}

for(row=3;row>=1;row--)

{

for(col=1;col<=row;col++)

{

cout<<"\*";

}

cout<<endl;

}

cout<<endl;

return 0;

}

3.

#include <iostream>

using namespace std;

int main()

{

int k,m,n;

for(n=1;n<=10;n+=2)

{

{

cout<<" ";

}

for(k=1;k<=n;k+=2)

{

cout<<" ";

}

for(m=9;m>=k;m-=1)

{

cout<<"\*";

}

cout<<endl;

}

return 0;

}

4.

#include<iostream>

using namespace std;

int main()

{

int count=0;

int k,m,n;

for(int width=0; width<=5;width++)

{

for(int alignLeft=width;alignLeft<=15;alignLeft++)

{

cout<<" ";

}

for(int space=1;space<count;space++)

{

cout<<"\*";

}

cout<<endl;

count+=1;

}

for(n=1;n<=4;n+=1)

{

cout<<" ";

for(k=1;k<=n;k+=1)

{

cout<<" ";

}

for(m=4;m>=k;m-=1)

{

cout<<"\*";

}

cout<<endl;

}

return 0;

}

5.

#include<iostream>

using namespace std;

int main()

{

int count=0;

for (int width=0; width<=8;width++)

{

for (int alignLeft=width;alignLeft<=15;alignLeft++)

{

cout << " ";

}

for (int space = 1; space < count; space++)

{

cout << "\*";

}

cout << endl;

count += 1;

}

cout << endl;

return 0;

}