Q1.

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#include <stdio.h>

int main(int argc, char \*argv[])

{

for (int i = 1; i <= 5; i++)

{

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

printf("\* ");

printf("\n");

}

return 0;

}

Q2.

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#include <stdio.h>

int main(int argc, char \*argv[])

{

for (int i = 1; i <= 5; i++)

{

for (int j = 1; j <= 5; j++)

{

if (j <= 5 - i)

printf(" ");

else

printf("\*");

}

printf("\n");

}

return 0;

}

Q3.

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#include <stdio.h>

int main(int argc, char \*argv[])

{

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

{

for (int j = 1; j <= (5 - i); j++)

printf("\* ");

printf("\n");

}

return 0;

}

Q4.

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#include <stdio.h>

int main(int argc, char \*argv[])

{

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

{

for (int j = 1; j <= 5; j++)

if (j <= i)

printf(" ");

else

printf("\*");

printf("\n");

}

return 0;

}

Q5.

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#include <stdio.h>

int main(int argc, char \*argv[])

{

for (int i = 4; i >= 0; i--)

{

for (int j = 1; j <= 9; j++)

if (j > i && j < 10 - i)

printf("\*");

else

printf(" ");

printf("\n");

}

return 0;

}

Q6.

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#include <stdio.h>

int main(int argc, char \*argv[])

{

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

{

for (int j = 1; j < 10; j++)

if (j > i && j < 10 - i)

printf("\*");

else

printf(" ");

printf("\n");

}

return 0;

}

Q7.

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#include <stdio.h>

int main(int argc, char \*argv[])

{

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

{

for (int j = 1; j <= 10; j++)

if ((j <= 5 - i) || (j >= 6 + i))

printf("\*");

else

printf(" ");

printf("\n");

}

return 0;

}

Q8.

1

121

12321

1234321

#include <stdio.h>

int main(int argc, char \*argv[])

{

int x = 0;

for (int i = 0; i < 4; i++)

{

for (int j = 0; j <= 4 + i; j++)

{

if ((j >= 4 - i) && (j <= 4 + i))

if (j <= 4)

printf("%d", x = x + 1);

else

printf("%d", x = x - 1);

else

printf(" ");

}

printf("\n");

x = 0;

}

return 0;

}

Q9.

1234321

12321

121

1

#include <stdio.h>

int main(int argc, char \*argv[])

{

int x = 0;

for (int i = 3; i >= 0; i--)

{

for (int j = 1; j <= 4 + i; j++)

{

if ((j >= 4 - i) && (j <= 4 + i))

if (j <= 4)

printf("%d", x = x + 1);

else

printf("%d", x = x - 1);

else

printf(" ");

}

printf("\n");

x = 0;

}

return 0;

}

Q10.

1234321

123 321

12 21

1 1

#include <stdio.h>

int main(int argc, char \*argv[])

{

int x = 0, y = 0;

for (int i = 4; i >= 1; i--)

{

if (i >= 3)

y = 0;

else

y = y + 1;

for (int j = 1; j <= 7; j++)

{

if (j <= i)

{

x = x + 1;

printf("%d", x);

}

else if (j >= 5 + y)

{

if (i == 4)

{

x = x - 1;

printf("%d", x);

}

else

{

printf("%d",x);

x=x-1;

}

}

else

{

printf(" ");

}

}

printf("\n");

x = 0;

}

return 0;

}

Q11.

A

ABA

ABCBA

ABCDCBA

ABCDEDCBA

#include <stdio.h>

int main(int argc, char \*argv[])

{

int x = 64;

for (int i = 0; i <= 4; i++)

{

for (int j = 1; j <= (5 + i); j++)

if ((j >= 5 - i) && (j <= 5 + i))

{

if (j <= 5)

{

x = x + 1;

printf("%c", x);

}

else

{

x = x - 1;

printf("%c", x);

}

}

else

printf(" ");

printf("\n");

x = 64;

}

return 0;

}

Q12.

ABCDCBA

ABCBA

ABA

A

#include <stdio.h>

int main(int argc, char \*argv[])

{

int x = 64;

for (int i = 3; i >= 0; i--)

{

for (int j = 1; j <= 4 + i; j++)

if (j >= 4 - i && j <= 4 + i)

if (j <= 4)

{

x = x + 1;

printf("%c", x);

}

else

{

x = x - 1;

printf("%c", x);

}

else

printf(" ");

x = 64;

printf("\n");

}

return 0;

}

Q13.

ABCDEFGFEDCBA

ABCDEF FEDCBA

ABCDE EDCBA

ABCD DCBA

ABC CBA

AB BA

A A

#include <stdio.h>

int main(int argc, char \*argv[])

{

int x = 64;

for (int i = -1; i <= 5; i++)

{

for (int j = 1; j <= 13; j++)

if (i == -1)

if (j <= 7)

{

x = x + 1;

printf("%c", x);

}

else

{

x = x - 1;

printf("%c", x);

}

else

if (j <= (6 - i))

{

x = x + 1;

printf("%c", x);

}

else if (j >= (8 + i))

{

printf("%c", x);

x = x - 1;

}

else

printf(" ");

x = 64;

printf("\n");

}

return 0;

}

Q14.

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#include <stdio.h>

int main(int argc, char \*argv[])

{

int space = 0, x = 1;

for (int i = 1; i <= 5; i++)

{

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

{

if (i < 3 || i == 5)

{

printf("\*");

}

else if (space == 0)

{

printf("\*");

space = x;

}

else if (space != 0)

{

printf(" ");

space = space - 1;

}

}

printf("\n");

if (i > 2)

{

x = x + 1;

space = 0;

}

}

}

Q15.

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#include <stdio.h>

int main(int argc, char \*argv[])

{

int flag = 5, space = 0, x = -1;

for (int i = 1; i <= 5; i++)

{

for (int j = 5; j >= 1; j--)

if (i < 3)

if (6 - j >= flag)

printf("\*");

else

printf(" ");

else if (i == 5)

printf("\*");

else if ((6 - j >= flag) && space == 0)

{

printf("\*");

space = x;

}

else if (space != 0)

{

printf(" ");

space = space - 1;

}

else

printf(" ");

printf("\n");

space = 0;

x = x + 1;

flag = flag - 1;

}

return 0;

}

Q16.

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#include <stdio.h>

int main(int argc, char \*argv[])

{

for (int i = 0; i <= 4; i++)

{

for (int j = 0; j <= 4 + i; j++)

if ((4 - i == j) || (4 + i == j))

printf("\*");

else

if (i == 4)

printf("\*");

else

printf(" ");

printf("\n");

}

return 0;

}

Q17.

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#include <stdio.h>

int main(int argc, char \*argv[])

{

for (int i = 4; i >= 0; i--)

{

for (int j = 8; j >= 4 - i; j--)

if (i == 4)

printf("\*");

else if ((4 - i == j) || (4 + i == j))

printf("\*");

else

printf(" ");

printf("\n");

}

return 0;

}

Q18.

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#include <stdio.h>

int main(int argc, char \*argv[])

{

for (int i = 0; i <= 4; i++)

{

for (int j = 0; j <= 4 + i; j++)

if ((j >= 4 - i) && (j <= 4 + i))

printf("\*");

else

printf(" ");

printf("\n");

}

for (int i = 3; i >= 0; i--)

{

for (int j = 0; j <= 4 + i; j++)

if ((j >= 4 - i) && (j <= 4 + i))

printf("\*");

else

printf(" ");

printf("\n");

}

return 0;

}

Q19.

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\*\*\*\*\*\*MySirG\*\*\*\*\*\*\*

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#include <stdio.h>

int main(int argc, char \*argv[])

{

int heart\_size = 12, col = (heart\_size - 3) \* 2, x = 0, size = 0, center, line=2;

char name[] = "MySirG";

// counting starting lines for perfect shape -> start

for (int i = 4; heart\_size >= (12 + i); i = i + 4)

{

line = line + 1;

}

// counting starting lines for perfect shape -> end

// first 3 rows -> start

for (int i = 0; i <= line; i++)

{

for (int j = 0; j <= col; j++)

{

if (((j >= (line - i)) && (j < (col / 2) - (line - i))) || ((j > (col / 2) + (line - i)) && (j <= col - (line - i))))

{

printf("\*");

}

else

{

printf(" ");

}

}

printf("\n");

}

// first 3 rows -> end

// string size count -> start

while (name[x] != '\0')

{

size = size + 1;

x = x + 1;

}

// string size count -> end

center = (col + 1) - size; // finding center for name

x = 0;

for (int i = 0; i <= (heart\_size - 3); i++)

{

if (i == 0)

{

// printing name -> start

for (int j = 0; j <= col; j++)

{

if ((j < (center / 2)) || (j >= (center / 2) + size))

{

printf("\*");

}

else

{

printf("%c", name[x]);

x = x + 1;

}

}

// printing name -> end

}

else

{

//printing second triangle -> start

for (int j = 0; j <= (col - i); j++)

{

if (j >= i)

{

printf("\*");

}

else

{

printf(" ");

}

}

//printing second triangle -> end

}

printf("\n");

}

return 0;

}