

Учебный проект Михаила Артюгина, гр. 3ИС-22 ^{v1 OAS3}

/v3/api-docs

Сервис демонстрации практических заданий

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Servers

http://localhost:8080 - Generated server url

Algorithmization

Основы алгоритмизации и программирования на языках высокого уровня

РОST /api/v1/stage1 Лабораторная работа №8. Написание программ с использованием файлов

Пишет и вычитывает значения из файлов

Рагаmeters Cancel Reset

No parameters

Request body required аpplication/json

DTO Алгоритмизация. Лабораторной работы 8

```
{
   "strings": [
     "string", "char", "1", "int", "-0.2"
   ]
}
```

10

Execute Clear Clear

Responses

Curl

```
curl -X 'POST' \
   'http://localhost:8080/api/v1/stage1/algorithmization/8' \
   -H 'accept: */*' \
   -H 'Content-Type: application/json' \
   -d '{
   "strings": [
     "string", "char", "1", "int", "-0.2"
   ]
}'
```

Request URL

http://localhost:8080/api/v1/stage1/algorithmization/8

Server response

Code Details

```
Code
             Details
200
             Response body
                "firstFileValues": [
                 "string",
                  "char",
                  "1",
                  "int",
                  "-0.2"
                "secondFileValues": [
                 "1",
"-0.2"
                                                                                        Download
             Response headers
               connection: keep-alive
               content-type: application/json
               date: Fri,07 Oct 2022 14:19:16 GMT
               keep-alive: timeout=60
               transfer-encoding: chunked
Responses
Code
             Description
                                                                                            Links
200
                                                                                            No links
             OK
             Media type
               */*
             Controls Accept header.
             Example Value Schema
                "firstFileValues": [
                  "string"
                ],
"secondFileValues": [
                  "string"
                ]
              }
```

POST /api/v1/stage1 /algorithmization/7

Лабораторная работа №7. Обработка символьной информации

^

Подсчитать количество слов и после каждого поставить запятую

Parameters

Cancel

Name

Description

inputString * required

string
(query)

Обрабатываемая строка

Тестовая строка для проверки работы

Execute

Clear

Responses

Curl

```
curl -X 'POST' \
   'http://localhost:8080/api/v1/stage1/algorithmization/7?inputString=%D0%A2%D0%B5%D1%81%D1%82%I
-H 'accept: */*' \
   -d ''
```

Request URL

http://localhost:8080/api/v1/stage1/algorithmization/7?
inputString=%D0%A2%D0%B5%D1%81%D1%82%D0%BE%D0%B2%D0%B0%D1%8F%20%D1%81%D1%82%D1%80%D0%BA
%D0%B0%20%D0%B4%D0%BB%D1%8F%20%D0%BF%D1%80%D0%BE%D0%B2%D0%B5%D1%80%D0%B8%20%D1%80%D0%B0
%D0%B1%D0%BE%D1%82%D1%8B

Server response

Code

Details

200

Response body

```
{
 "countWords": 5,
 "changedString": "Тестовая, строка, для, проверки, работы"
}
```

Response headers

```
connection: keep-alive
content-type: application/json
date: Fri,07 Oct 2022 14:20:15 GMT
keep-alive: timeout=60
transfer-encoding: chunked
```

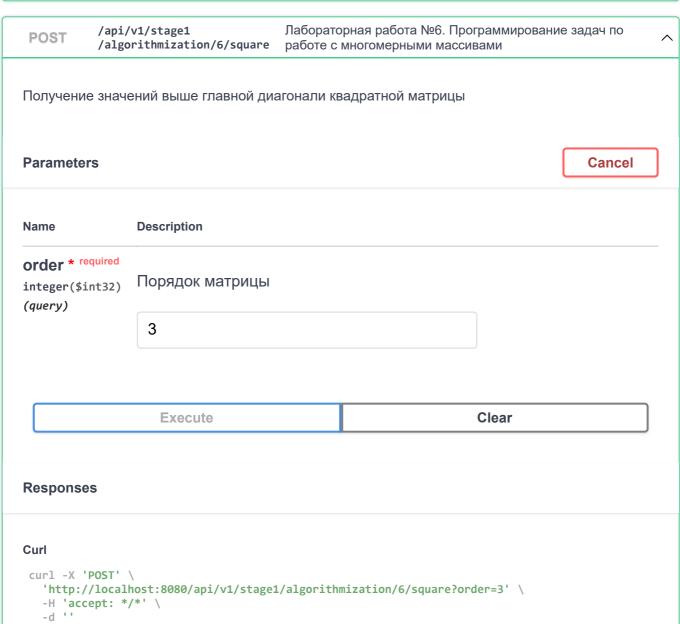
Responses

Code Description

Links

Download





Request URL

```
http://localhost:8080/api/v1/stage1/algorithmization/6/square?order=3
```

Server response

Code

Details

200

Response body

Download

Response headers

```
connection: keep-alive
content-type: application/json
date: Fri,07 Oct 2022 14:20:43 GMT
keep-alive: timeout=60
transfer-encoding: chunked
```

Responses

200

Code Description

Links

No links

OK

UN

Media type



Controls Accept header.

Example Value Schema

/api/v1/stage1
POST /algorithmization/6
/rectangular

Лабораторная работа №6. Программирование задач по работе с многомерными массивами

Находит наибольший и наименьший элементы прямоугольного двумерного массива

Parameters

Cancel

Name	Description
height * required integer(\$int32) (query)	Высота матрицы
	3
<pre>width * required integer(\$int32) (query)</pre>	Ширина матрицы
· · · · · · · · · · · · · · · · · · ·	4

Execute Clear

Responses

Curl

```
curl -X 'POST' \
  'http://localhost:8080/api/v1/stage1/algorithmization/6/rectangular?height=3&width=4' \
  -H 'accept: */*' \
  -d ''
```

Request URL

http://localhost:8080/api/v1/stage1/algorithmization/6/rectangular?height=3&width=4

Server response

Code Details

200

```
Response body
```

```
"array": [
    1831858788,
    -1680990463,
    1823059735,
    -213884081
  ],
    -1914434599,
    -1728582660,
    1842911141,
    618135970
    -839605865,
    671969348,
    458044132,
    1881360047
],
"max": 1881360047,
" -1914434599
"min": -1914434599
```

Download

Response headers

connection: keep-alive
content-type: application/json
date: Fri,07 Oct 2022 14:16:49 GMT
keep-alive: timeout=60
transfer-encoding: chunked

Responses

Code Description

Links

200 OK No links

Media type

/

Controls Accept header.

Example Value Schema

POST /api/v1/stage1 /algorithmization/5

Лабораторная работа №5. Программирование задач, содержащих в себе пользовательские функции

Меняет местами максимальный и минимальный элементы массива

Parameters

Cancel

Reset

No parameters

Request body required

application/json

DTO Алгоритмизация. Лабораторной работы 5

```
{
    "array": [
     0, 1, 2, 3, 4
    ]
}
```

1

Execute

Clear

Responses

Curl

```
curl -X 'POST' \
   'http://localhost:8080/api/v1/stage1/algorithmization/5' \
   -H 'accept: */*' \
   -H 'Content-Type: application/json' \
   -d '{
   "array": [
     0, 1, 2, 3, 4
   ]
}'
```

Request URL

http://localhost:8080/api/v1/stage1/algorithmization/5

Server response

Code

Details

200

Response body

```
"sourceArray": [
    0,
    1,
    2,
    3,
    4
],
    "changedArray": [
    4,
    1,
    2,
    3,
    0
]
```

Download

Response headers

```
connection: keep-alive
content-type: application/json
date: Fri,07 Oct 2022 14:20:58 GMT
keep-alive: timeout=60
transfer-encoding: chunked
```

Responses

Code

Links

No links

200

OK

Media type

Description



Controls Accept header.

Example Value Schema

```
{
    "sourceArray": [
        0
    ],
    "changedArray": [
        0
    ]
}
```

/4

Вычисление значения с использованием одномерных массивов

Parameters

Cancel

Reset

No parameters

Request body required

application/json

DTO Алгоритмизация. Лабораторной работы 4

```
{
   "numbers": [
    1, 2, 3, 4, 5
]
}
```

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Execute

Clear

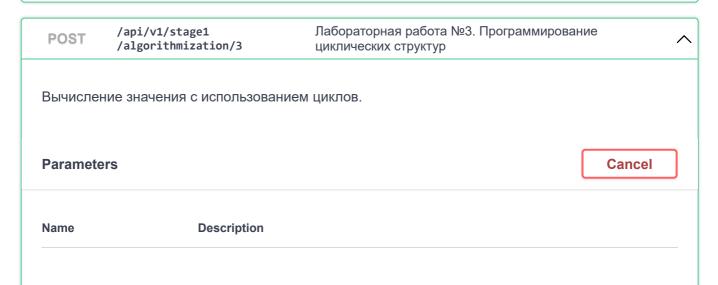
Responses

Curl

```
curl -X 'POST' \
   'http://localhost:8080/api/v1/stage1/algorithmization/4' \
   -H 'accept: */*' \
   -H 'Content-Type: application/json' \
   -d '{
   "numbers": [
     1, 2, 3, 4, 5
   ]
}'
```

Request URL

http://localhost:8080/api/v1/stage1/algorithmization/4 Server response Code **Details** 200 Response body [5.0, 0.5, 0.67, 0.75, 0.8] Download Response headers connection: keep-alive content-length: 27 content-type: text/plain;charset=UTF-8 date: Fri,07 Oct 2022 14:21:04 GMT keep-alive: timeout=60 Responses Code **Description** Links 200 No links OK Media type */* Controls Accept header. Example Value Schema string



Name	Description		
m * required integer(\$int32) (query)	Параметр m, nMinValue	e >= m > 0	
	1		
nMinValue * required integer(\$int32) (query)	Параметр nMinValue, n	MinValue + step > nMaxValเ	ıe
(4)	2		
nMaxValue * required integer(\$int32) (query)	Параметр nMaxValue, r	nMinValue + step > nMaxVal	ue
(4)/	20		
<pre>step * required integer(\$int32) (query)</pre>	Параметр step, step != (0	
(442.37)	2		
F	xecute	Clear	

Responses

Curl

```
curl -X 'POST' \
  'http://localhost:8080/api/v1/stage1/algorithmization/3?m=1&nMinValue=2&nMaxValue=20&step=2' \
  -H 'accept: */*' \
  -d ''
```

Request URL

http://localhost:8080/api/v1/stage1/algorithmization/3?m=1&nMinValue=2&nMaxValue=20&step=2

Server response

Code Details

Code Details

200

Response body

Значение m = 1 Начальное значение n, nMinValue = 2 Конечное значение n, nMaxValue = 20 Шаг перемещения по диапазону n, step = 2

Параметр п	Результирующее значение
2	Арифметическая ошибка
4	-4.80
6	-6.05
8	-8.00
10	-10.00
12	-12.00
14	-0.66
16	-1.00
18	_2 11
20	Downloa

Response headers

connection: keep-alive
content-length: 1936

content-type: text/plain;charset=UTF-8
date: Fri,07 Oct 2022 14:21:10 GMT

keep-alive: timeout=60

Responses

Code	Description	Links
200	OK	No links
	Media type */* Controls Accept header.	
	Example Value Schema	
	string	

POST /api/v1/stage1 Лабораторная работа №2. Программирование задач, содержащих алгоритмы разветвляющихся структур

Вычисление значения с логикой условного ветвления

Parameters

Cancel

Name

Description

```
x * required
```

```
integer($int32)Параметр х
```

(query)

1

y * required

```
integer($int32)Параметр у (query)
```

2

Execute

Clear

Responses

Curl

```
curl -X 'POST' \
  'http://localhost:8080/api/v1/stage1/algorithmization/2?x=1&y=2' \
  -H 'accept: */*' \
  -d ''
```

Request URL

http://localhost:8080/api/v1/stage1/algorithmization/2?x=1&y=2

Server response

Code

Details

200

Response body

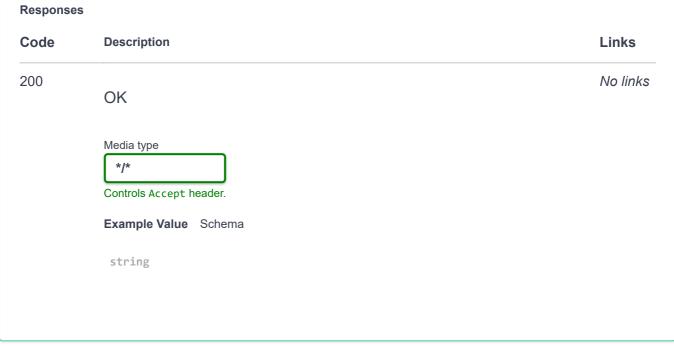
```
{
  "formula": "a = (x + y)^2 - sqrt(x * y)",
  "result": 7.585786437626905
}
```

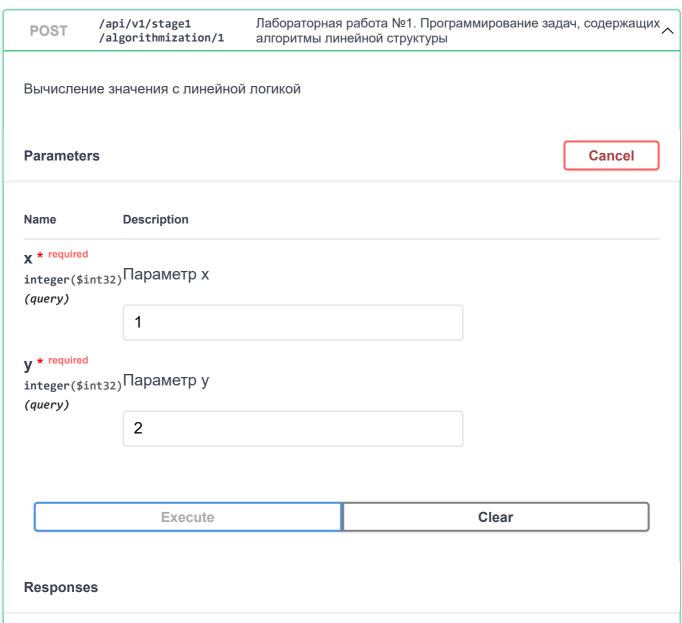
Download

Response headers

```
connection: keep-alive
content-type: application/json
date: Fri,07 Oct 2022 14:21:15 GMT
keep-alive: timeout=60
```

transfer-encoding: chunked





```
Curl
```

```
curl -X 'POST' \
  'http://localhost:8080/api/v1/stage1/algorithmization/1?x=1&y=2' \
  -H 'accept: */*' \
  -d ''
```

Request URL

http://localhost:8080/api/v1/stage1/algorithmization/1?x=1&y=2

Server response

Code Details

200

Response body

-14.4417

Download

Response headers

connection: keep-alive
content-length: 8

content-type: text/plain;charset=UTF-8
date: Fri,07 Oct 2022 14:21:20 GMT

keep-alive: timeout=60

Responses

Code	Description	Links
200		No links

OK

Media type

/

Controls Accept header.

Example Value Schema

string

Schemas

^

AlgLab8RequestDto
AlgLab8ResponseDto
AlgLab7ResponseDto
AlgLab6SquareMatrixResponseDto
AlgLab6RectangularMatrixResponseDto
AlgLab5RequestDto
AlgLab5ResponseDto
AlgLab4RequestDto