

Nova Remote Control

User's Guide North America
M67100-E

INTRODUCTION

The Nova universal remote control allows you to control up to 4 home theater devices with one easy to use, compact remote control. Just install batteries and follow the instructions in "Programming Device Control" to program the Nova remote to control your equipment.

INSTALLING BATTERIES

Your Nova universal remote control requires 2 AA batteries (not supplied).

Battery Use And Safety

- Use only fresh batteries of the required size and recommended type.
- Do not mix old and new batteries, different types of batteries (standard, alkaline, or rechargeable), or rechargeable batteries of different capacities.
- If you do not plan to use the remote for an extended period, remove the battery. It can leak chemicals that can destroy electronic parts.

WARNING: Dispose of old batteries promptly and properly. Do not burn or bury them.

To Install Batteries:

- Open the battery compartment cover (located on the back of the remote).
- Place the AA batteries in the compartment and match the + and - polarity symbols inside.
- Replace the cover.

NOTE: When the battery voltage is low, the feedback LED blinks 5 times after a keypress.

A QUICK LOOK AT THE CONTROLS

Press this key...	To...
TV	Select a device.
Power	Turn the selected device on or off.
SET	Program sequences.
1	Select the next or previous channel.
LAST	Select next or previous chapter on some models of DVD players.
+	Press LAST to recall the last-viewed channel.
-	Raise or lower the sound level.
MUTE	Press MUTE to turn the sound off or on.
OK	Move the cursor in the menu screens. Press OK to choose the highlighted menu option.
Back	Skip backward, rewind, fast forward, skip forward, stop, pause, or play control on DVD, DVR, PVR, or CD devices.
SKIP FORWARD	Press SKIP FORWARD to skip ahead in your program. Press SKIP BACK to skip back in your program.
CH	View the current channel and program information.
GUIDE	Display the menu for the selected device.
EXIT	Exit the selected device's menu, guide, or program without making a menu selection.
INFO	Display the program guide for the selected device.
INPUT	Switch the video and/or audio input of the active device.
1 2 3	Directly enter channels (for example, 09 or 31).
4 5 6	Press Enter to send channel number entries on some TV models.

PROGRAMMING DEVICE CONTROL

To program this remote to control home theater devices, follow the steps below. Before proceeding, find the codes for the devices you want to program in "Manufacturer's Codes" on the right side of this page and write them down or highlight them.

- Turn on the device (for example, DVD player) and, if needed, load media (for example, a DVD).
 - Press a device key on the remote that you wish to program (**TV**, **DVD**, **STB**, or **AUX**).
 - Press and hold **SET** until the red LED blinks twice, then release.
 - Enter the first five-digit code for the device and brand that you wish to program. The LED blinks once as each digit is entered. If the code is valid, the LED blinks twice.
- NOTE:** If the LED does not blink twice, repeat steps 2 to 4 and try entering the code again.
- Aim the remote at the device and press **POWER**. The device should turn off. If it does not, repeat steps 3-5, trying each code for your brand until you find one that works. If you cannot find a code that works, see "Searching for Your Code".
 - Repeat steps 1 to 5 for the other devices you want to control. For future reference, write down each working device code in the following chart:

TV Code:	
DVD Code:	
STB Code:	
AUX Code:	

SEARCHING FOR YOUR CODE

If your device does not respond to the remote after trying all codes listed for your brand, or if your brand is not listed, try searching for your code:

- Turn the device you wish to control on.
- Press the desired device key once.
- Press and hold **SET** until the red LED blinks twice, then release.
- Enter **9 9 1**. The LED blinks twice.

5. Press the device group number for your device type (see table below).

Code	Device Group
0	Cable (Cable Converters, Video Accessories, Satellite Receivers)
1	TV (TVs)
2	VCR (VCRs, DVD players)
3	Audio (Audio Amplifiers, Audio Amp/Processors, CD players)

- Aim the remote at the device and press **Power**. The remote sends IR codes from its library to the selected device, starting with the most popular code first. If the device responds, go to step 8.
- If the device does not respond, press **CH+** and the remote will test the next code for that device type. Continue to press **CH+** until the device turns off.

NOTE: Press **CH+** to try the previous code.

- Now that you have found the correct code, press **SET** to save the code that worked for your device. The LED blinks twice to indicate that the code has been saved. To search for other device codes, repeat steps 1 to 8.

CHECKING THE CODES

If you have set up the remote using the procedure in "Searching for Your Code", you may need to find out which five-digit code is operating your equipment. For example, to find out which code is assigned to your TV:

- Press **TV** once.
- Press and hold **SET** until the red LED blinks twice, then release.
- Enter **9 9 0**. The LED blinks twice.
- To view the code for the first digit, press **1**. Count the red LED blinks (for example, three blinks = 3), and write down the number in the appropriate code listing at the top of this column.

- Repeat step 4 for the four remaining digits, using **2** for the second digit, **3** for the third digit, **4** for the fourth digit, and **5** for the fifth digit.
- To check for other device codes, repeat steps 1-5, substituting the device key the desired mode you would like to check.

USING LEARNING

This universal remote control includes a Learning feature (some models may not include Learning) so you can add functions that are unique to your home entertainment devices (e.g., VCR Tracking Up or Down). However, there are some considerations.

Learning Precautions

- Your original remote controls must be in working order for learning to work properly.
- Learnt keys are mode-specific, so each one can store a unique function for each mode.
- Do not use the following keys for learning: **Device Keys**, **SET**, or **Record (*)**.
- Learning capacity is approximately 42 to 75 keys, depending on the code being learned.
- Certain device functions are not learnable including multi-frequency types, some high frequency functions, and other unusual formats.
- For optimum learning, avoid high levels of ambient light such as natural sunlight or energy-efficient fluorescent lights.

NOTE: Please have your original remote controls handy before programming learning.

Programming a Learned Key

NOTE: If more than 10 seconds pass between key presses, the remote exits programming.

- Place the Nova head-to-head (about 2" apart) from your original remote control. Also locate the key (on your original remote control) that you want the Nova to learn. Press the mode key you wish to learn functions on.
- Press and hold **SET** until the LED blinks twice, then release.
- Enter **9 7 5**. The LED blinks twice.

NOTE: If the LED displays one long flash instead, either your batteries are low, or the Nova has a memory fault. In either case, the remote cannot learn a new key.

- Press the key on the remote you wish to learn onto. The feedback LED stays lit for three seconds, suggesting the remote is ready to learn.
- On the original remote, press and hold the key to be learned. Continue holding the key on the original remote until the Nova's LED blinks twice.

NOTE: If the red LED displays one long blink, a learning error has occurred. Try repeating this step again until a successful capture occurs. If the function is still not captured, press and hold **SET** to exit programming and review the "Learning Precautions" above. If needed, also see "Troubleshooting" below. After reviewing, start programming again at step 1.

- Repeat steps 4 through 5 for another key you would like to learn onto. Once you have completed learning all keys, press and hold **SET** until the LED blinks twice to save all data learned.

Deleting a Single Learning Key

This process returns the key to its original programming for the mode you select. You can also delete learned programming by teaching a different function to the key (see "Programming a Learned Key").

NOTE: If more than 10 seconds pass between key presses, the remote exits programming.

- Press the mode key that you wish to remove the learned key from.
- Press and hold **SET** until the LED blinks twice, then release.
- Enter **9 7 6**. The LED blinks twice.
- Press the key containing the learned function to be deleted twice. The LED blinks twice and exits from programming.

Deleting All Learned Keys in a Specific Mode

NOTE: If more than 10 seconds pass between key presses, the remote exits programming.

- Press the mode key that you wish to remove the learned key from.
- Press and hold **SET** until the LED blinks twice, then release.
- Enter **9 7 8**. The LED blinks twice.
- Press a mode key twice (i.e., **TV**, **DVD**, **STB**, or **AUX**) to clear all the learned keys for that mode. The LED blinks twice and exits from programming.

CHANGING VOLUME LOCK

The Nova universal remote control comes preset to allow independent volume control of each selected device (Global Volume Lock). However, you may change the Volume Lock setting to Global Volume Lock so that one device's volume controls volume in all other modes. After that, you can perform Individual Volume Unlock on a selected device to set its volume control for independent operation or Global Volume Lock to remove all volume locking.

Locking Volume Control to One Mode (Global Volume Lock)

- Press and hold **SET** until the red LED blinks twice, then release.
- Enter **9 9 3**, the LED blinks twice.
- Press the mode key for the device you want to control (for example, **TV**).
- The LED blinks twice. Now when you press **VOL+**, **VOL-**, or **Mute**, the selected device (for example, **TV**) controls the volume regardless of the current mode.

Unlocking All Volume Control (Restoring Global Volume)

- Press and hold **SET** until the red LED blinks twice, then release.
- Enter **9 9 3**, the LED blinks twice.
- Press **VOL+**. The LED blinks four times. Volume is independently controlled for all programmed devices.

Unlocking a Single Device's Volume Control

- Press the desired device mode key (**TV**, **DVD**, **STB**, or **AUX**).
- Press and hold **SET** until the red LED blinks twice, then release.
- Enter **9 9 8**. The LED blinks twice.
- Then press **VOL-**. The red LED blinks four times. Volume is independently controlled for the selected devices.

PROGRAMMING CHANNEL LOCK

Channel control can be locked so that the Nova remote controls a single device's channel-changing functions, regardless of operating mode. This is often enabled by users who watch all broadcast TV through one device (e.g., a cable set-top box). The affected keys are **1 through 0**, **CH+**, **CH-**, and **LAST**.

Locking All Channel Controls to One Device

To lock all channel-control functions to a specific device, follow these steps:

- Press the mode key that relates to the device that you use for channel-changing control.
- Press and hold **SET** until the red LED blinks twice, then release.
- Enter **9 7 3**. The mode LED blinks twice.
- Press **CH+** once. The mode LED blinks twice.

Now, regardless of what mode you select, the channel keys will only change channels on the assigned device.

Unlocking Channel Locks

To unlock Channel Lock and thus allow the channel control functions to work with the device associated to the active operating mode, follow these steps:

- Press the mode key that relates to the device that you use for channel-changing control.
- Press and hold **SET** until the mode LED blinks twice, then release.
- Enter **9 7 3**. The mode LED blinks twice.
- Press **CH-** once. The mode LED blinks four times.

Now the channel functions will correlate to the active mode (e.g., press **CH+** in TV mode and the TV changes channel accordingly).

USING KEYMOVER

Your Nova universal remote control includes a *Keymove* feature that allows you to map (or copy) keys from one mode (i.e., source mode) to another mode (i.e., destination mode) or to a different key in the same mode.

NOTE: Do not use any of the Device Keys, **POWER**, **RECORD**, or **SET** as a source or destination key.

Moving Keys in the Same Device Mode

- Press the desired device key (**TV**, **DVD**, **STB**, or **AUX**).
- Press and hold **SET** until the LED blinks twice, then release.
- Press **9 9 4**. The LED blinks twice.
- Press the key you want to move.
- Press the new key that should perform the function. The LED blinks twice.
- Repeat steps 1-5 to move additional keys.

Moving Keys to a Different Device Mode

This lets you, for example, control DVD functions while in TV mode. You would move the transport key functions (**Play**, **Stop**, etc.) from DVD mode to TV mode, as follows:

- Press and hold **SET** until the LED blinks twice, then release.
- Press **9 9 4**. The LED blinks twice.
- Press the device key that contains the function you want to move (e.g., **DVD**).
- Press the key you want to move (e.g., **Play**).
- Press the device key that you want to move the function to. (e.g., **TV**).
- Press the key in the new mode that should perform the function (e.g., **Play**). The LED blinks twice.
- Repeat steps 1-6 to move additional keys.

Restoring All Keymoved Data in a Specific Mode

- Press a device key **SET** until the LED blinks twice, then release.
- Press **9 9 4**. The LED blinks twice.
- Press the device key you wish to remove all keymoved data from twice. The LED blinks twice.
- Repeat for each device you want to restore.

Restoring Original Key Function

- Press the device key for which you wish to remove the keymoved data from a specific key.
- Press and hold **SET** until the LED blinks twice, then release.
- Enter **9 9 4**. The LED blinks twice.
- Press the key you wish to remove the keymoved data from twice. The LED blinks twice.
- Repeat steps 1-4 for additional keys you wish to remove.

PROGRAMMING MACROS

Your Nova universal remote control includes the ability to program any key (other than the **SET** key) with a Macro function. Each one can be set up to perform a pre-programmed set of sequential key presses with the press of one key. A macro can be used to control a home theater operation, to set a favorite channel, or for other multiple functions you would like to control with one key press. Moreover, each **Macro** key can hold up to 15 key presses total.

NOTE: Programming a new macro over an existing one erases the original macro.

Programming a Mode-Independent Macro

- Press and hold **SET** until the red LED blinks twice, then release.
- Press **9 9 5**. The LED blinks twice.
- Press the key you wish to assign a macro on.
- Enter the series of commands you want the macro to execute (up to 15 commands).
- Press and hold **SET** until the red LED blinks twice, then release. Now, when you press the preset macro key, the remote sends the series of commands you have entered, regardless of what mode you are in. For example, you could program a macro key to turn on both your TV and cable box and select a particular channel.

To clear the macro, repeat steps 1-5 above, but do not enter a series of commands at step 4.

Programming a Mode-Dependent Macro

- Press the device mode key (**TV**, **DVD**, **STB**, or **AUX**).
- Press and hold **SET** until the red LED blinks twice, then release.
- Press **9 7 8**. The LED blinks twice.
- Press the key you wish to assign a macro on.
- Enter the series of commands you want the macro to execute (up to 15 commands).
- Press and hold **SET** until the red LED blinks twice, then release. Now, when you press the macro key, the remote sends the series of commands you have entered, but only if you are in the mode you set up in TV mode. If you are in DVD mode, this key does not execute the macro you set up in TV mode.

To clear the macro, repeat steps 1-6 above, but do not enter a series of commands at step 5.

TROUBLESHOOTING

PROBLEM: LED does not blink when you press a key.

SOLUTION: Try pressing different keys. Replace the batteries with 2 new AA batteries.

PROBLEM: LED blinks when you press a key, but device does not respond.

SOLUTION: Make sure the remote is aimed at your device and is not more than 40 feet away.

PROBLEM: LED blinks one long blink while in **SET** mode.

SOLUTION: An entry error has occurred (for example, wrong key). Try entering the sequence again.

PROBLEM: Remote does not control devices or commands are not working properly.

SOLUTION: Try all listed codes for the device. Make sure the device operates with an infrared remote control.

PROBLEM: No volume on a device.

SOLUTION: See "Changing Volume Lock" and make sure the volume is not locked to a different mode already.

PROBLEM: Channels do not change properly when directly entering digits to change channels.

SOLUTION: If the original remote control required you to press **Enter** to change channels, press **Enter** on this remote after entering the channel number.

MANUFACTURER'S CODES

Setup Codes for Audio Amplifiers	
Adcom	30573, 31100
Autism	32230
Sharp	30186, 31286
Sharper Image	31356

Carver	30892
Durabrand	31561
Elin	30647
GE	30078
Harrman/Kardon	30892
JVC	30531
Leif Coast	30892
Lennox	31561
Marantz	30892
McIntosh	30251
Modulair	30395
NEC	30264
Optimas	30395, 30823
Philips	30892
Pioneer	30823
Pro Audio	30892
RadioShack	30395
RCA	30823
Realistic	30395
Shure	30264
Sony	30689, 30815
Soundesign	30078
Victor	30331
Wards	30078
Yamaha	30534, 30133

Setup Codes for Audio Accessories

Accutran	31106
Alec Lansing	30607, 31056
Amimo	31115
Apple	30872
Creative	31185
EDS	31131
Griffin	31891
Ilive	31106
Ilivox	31252
Ilive	31213
Imerge	31491
Intertek	31917
Klipsch	31339
Marantz	31491
Memorex	32119
Monitor Audio	31106
Monitors	31464
Omni	31605
Alan	31628
Sennace	31917
Yamaha	31889, 31810, 31021

Setup Codes for Audio Receivers

ADC	30531
Adcom	30616
Alco	31405, 30189, 30121, 31089, 31388, 31641
Alan	30243, 31312
Alco	31390
AMC	31077
Amphion Media Works	31563
AMW	31563
Anam	31609, 31074
Antheim	31185
Apex Digital	31257, 31430, 31774
Arcam	31189
AudioElectronic	31189
Audiovent	31390
B & K	30702, 30820, 30840
BR	30702
Bose	31229, 30639, 31253, 31629, 31841, 31933
Cambridge Soundworks	31370
Capetronic	30531
Carver	31189, 30189, 30121, 31089, 31289
Coby	31389
Curtis Mathes	30014
Hewlett	31250
Denson	31360, 30121, 31104, 31142, 31306, 31267
Emerson	30531
Fisher	31801
Garrard	30463
Grundig	30189
Harrman/Kardon	30110, 30189, 30891, 31289, 31304, 31306, 32241
Hitachi	31273, 31801
Ilive	32013
Inland	30491
Insignia	31030, 30074, 31374, 31495, 31871, 32239
JBL	31011, 31306
JVC	31058, 30074, 31374, 31495, 31871, 32239
Kanauski	31390
Kenwood	31313, 31570, 30077, 30186, 31027
KLH	31390, 31412, 31428
Koss	31306, 31497
Leviton	31078
LIF	31293, 31297
Linn	30189
Liquid Video	31497
Magnavox	31189, 31269, 30189, 30391, 30531, 31089, 31266, 31514
Marantz	31189, 31269, 30189, 30891, 31089, 31289
McIntosh	31289
Microsonics	31189, 30189
Minutosh	31393
Monistone	31089
Myrrad	31189
Nakamichi	31313, 30097, 31553
Norcent	31189
Nova	31389
Onkyo	30135, 30842, 31298, 31320, 31531, 31805

Zoece 21265

Setup Codes for DVD Players (Blu Ray and HD-DVD)

Deen	22258
Imagina	21269
LG	20741
Microsoft	22083
Onkyo	21769
Panasonic	21641
Philips	22084
Pioneer	20818, 20739
RCA	21760
Samsung	20199
Sharp	22250
Sony	21516
Toshiba	21769
Xbox	22083

Setup Codes for DVD/PVR Combos Controlled by the DVD

Go Video	21730
Humax	21500, 21588
LG	20741
Panasonic	20490
Philips	21340
Pioneer	20651, 21512
RCA	21760
Sharp	21256
Sony	21033, 21070
Sylvania	20675
Tivo	21512
Toshiba	21503, 21510, 21588

Setup Codes for Home Automation

Accuthek	31215
Amana	31716
Bionaire	30846, 31215, 31861
Da Lite	31794
Draper	31290
Frigidaire	31331
GE	30240
GoldStar	31357
Holmes	31215
Kenmore	31537
Ladao	30846, 31890
LG	31537
Lightsider	30184
Lutron	30597, 30318, 31239, 31907
Marmitek	30167
One For All	30167
PCS	30184
RadioShack	30240
Sony Research	30097
Security System	30167
Sharper Image	30846
SmartLine	30184
Universal	30167
Universal X10	30167
Whisper	31332
Windstream	31215
X10	30167

Satellite Receivers and DVR/PVR Systems

Setup Codes for Satellite Receivers	
AlphaStar	00722
Bell ExpressVu	00775, 01170
Chopperd	00216
Cricoid	01806
Crosslight	01109
DirecTV	01377, 00392, 00656, 00639, 01639, 01142, 00247, 00749, 01749, 00819, 01856, 01076, 01108, 00099, 01109, 01392, 01414, 01442, 01443, 01444, 01445, 01499, 01640
Dish Network System	01505, 00775, 01170, 01775
Dishdog	01505, 00775, 01775
Echostar	01505, 00775, 01170, 01775
ExpressVu	00775, 01775
Fortis Star	01577
Funai	01577
GE	00392, 00566
General Instrument	00869
GO!	00775, 01775
Hiachi	00749, 00819
Houston	00775
ITS	00775, 01775
Hughes Network Systems	01142, 00749, 01749, 01442, 01443, 01444
Humax	01790
Humax	00899
Imajima	00899
JVC	00775, 01170, 01775
LG	01236, 0414
Magnavox	00722
McIntosh	00869
Minutabishi	00749
Motorola	00869
Netat	00099
Nect Level	00869
Panasonic	00247, 00701
Pinnacle	01087
Philips	01142, 00749, 01749, 00775, 00819, 01076, 00722, 00099, 01442
Primostar	00869
Proscan	00392, 00566
RadioShack	00566, 00775, 00869
RCA	00392, 00566, 01142, 00775, 00855, 00143, 01392, 01442
Samsung	01377, 01142, 01276, 01108, 01109, 01442, 01609
SKV	00099
Sony	00639, 01639, 01640
Star Choice	00869
Star Trak	00772, 00869
Thomson	00392, 00566
Tivo	01142, 01442, 01443, 01444
Toshiba	00749, 01749, 00790, 01265
UltimateTV	01392, 01640
UltraStar	01806
Uniden	00722
Voom	00869
Zenith	01836

Setup Codes for PVRs

AKS	21972
Alcamore	21972
CyberPower	21972
Dell	21972
DirecTV	20739
Gateway	21972
Go Video	20614
Hewlett Packard	21972
Homant Computers	21972
HP	21972
Hughes Network Systems	20739
Humax	20739

Hush	21972
IBUYPOWER	21972
Linkups	21972
Media Center PC	21972
Microsoft	21972
Mind	21972
Nivens Media	21972
Northgate	21972
Panasonic	20014, 20616
Philips	20818, 20739
Pioneer	20818, 20616
ReplyTV	20818, 20616
Sony	20739
Sonic Blue	20614, 20616
Sony	20636, 21972
Stack 9	21972
Synthesys	21972
Tiger Systems	21972
Tivo	20618, 20636, 20739
Toshiba	21008, 21972, 21996
Touch	21972
Visionics	21972
Voodoo	21972
WTC	21972

Setup Codes for DVR/PVR Systems Controlled by the Satellite

Bell ExpressVu	00775, 01170
DirecTV	01377, 00392, 00639, 0142, 01076, 00099, 01392, 01442, 01443, 01444, 01640
Dish Network System	01505, 00775
Dishdog	01505, 00775
Echostar	01505, 00775, 01170
ExpressVu	00775
Hughes Network Systems	01142, 01442, 01443, 01444
JVC	01170
Motorola	00869
Philips	01142, 01442
Proscan	00392
RCA	01192
Samsung	01442
Sony	00639, 01640
Star Choice	00869
Tivo	01142, 01442, 01443, 01444

Controlled by the VCR

DirecTV	20739
Hughes Network Systems	20184
Philips	20739
Samsung	20739
Tivo	20739

Setup Codes for TVs

A-Link	10047, 10054
Accurian	11803
Accuscan	10047
Action	10036, 10873
Admiral	10047, 10054, 10017, 10051, 10093, 10463, 10180
Advent	10161, 10783, 10815, 10817, 10842
Adventist	10009
Agna	10150
Aiko	10092
Alkal	10060, 10812, 10702, 10030, 10145, 10056, 10672, 11475, 11476, 11478, 11479, 11480, 11481, 11482, 11483, 11484, 11485, 11486, 11487, 11488, 11489, 11490, 11491, 11492, 11493, 11494, 11495, 11496, 11497, 11498, 11499, 11500, 11501, 11502, 11503, 11504, 11505, 11506, 11507, 11508, 11509, 11510, 11511, 11512, 11513, 11514, 11515, 11516, 11517, 11518, 11519, 11520, 11521, 11522, 11523, 11524, 11525, 11526, 11527, 11528, 11529, 11530, 11531, 11532, 11533, 11534, 11535, 11536, 11537, 11538, 11539, 11540, 11541, 11542, 11543, 11544, 11545, 11546, 11547, 11548, 11549, 11550, 11551, 11552, 11553, 11554, 11555, 11556, 11557, 11558, 11559, 11560, 11561, 11562, 11563, 11564, 11565, 11566, 11567, 11568, 11569, 11570, 11571, 11572, 11573, 11574, 11575, 11576, 11577, 11578, 11579, 11580, 11581, 11582, 11583, 11584, 11585, 11586, 11587, 11588, 11589, 11590, 11591, 11592, 11593, 11594, 11595, 11596, 11597, 11598, 11599, 11600, 11601, 11602, 11603, 11604, 11605, 11606, 11607, 11608, 11609, 11610, 11611, 11612, 11613, 11614, 11615, 11616, 11617, 11618, 11619, 11620, 11621, 11622, 11623, 11624, 11625, 11626, 11627, 11628, 11629, 11630, 11631, 11632, 11633, 11634, 11635, 11636, 11637, 11638, 11639, 11640, 11641, 11642, 11643, 11644, 11645, 11646, 11647, 11648, 11649, 11650, 11651, 11652, 11653, 11654, 11655, 11656, 11657, 11658, 11659, 11660, 11661, 11662, 11663, 11664, 11665, 11666, 11667, 11668, 11669, 11670, 11671, 11672, 11673, 11674, 11675, 11676, 11677, 11678, 11679, 11680, 11681, 11682, 11683, 11684, 11685, 11686, 11687, 11688, 11689, 11690, 11691, 11692, 11693, 11694, 11695, 11696, 11697, 11698, 11699, 11700, 11701, 11702, 11703, 11704, 11705, 11706, 11707, 11708, 11709, 11710, 11711, 11712, 11713, 11714, 11715, 11716, 11717, 11718, 11719, 11720, 11721, 11722, 11723, 11724, 11725, 11726, 11727, 11728, 11729, 11730, 11731, 11732, 11733, 11734, 11735, 11736, 11737, 11738, 11739, 11740, 11741, 11742, 11743, 11744, 11745, 11746, 11747, 11748, 11749, 11750, 11751, 11752, 11753, 11754, 11755, 11756, 11757, 11758, 11759, 11760, 11761, 11762, 11763, 11764, 11765, 11766, 11767, 11768, 11769, 11770, 11771, 11772, 11773, 11774, 11775, 11776, 11777, 11778, 11779, 11780, 11781, 11782, 11783, 11784, 11785, 11786, 11787, 11788, 11789, 11790, 11791, 11792, 11793, 11794, 11795, 11796, 11797, 11798, 11799, 11800, 11801, 11802, 11803, 11804, 11805, 11806, 11807, 11808, 11809, 11810, 11811, 11812, 11813, 11814, 11815, 11816, 11817, 11818, 11819, 11820, 11821, 11822, 11823, 11824, 11825, 11826, 11827, 11828, 11829, 11830, 11831, 11832, 11833, 11834, 11835, 11836, 11837, 11838, 11839, 11840, 11841, 11842, 11843, 11844, 11845, 11846, 11847, 11848, 11849, 11850, 11851, 11852, 11853, 11854, 11855, 11856, 11857, 11858, 11859, 11860, 11861, 11862, 11863, 11864, 11865, 11866, 11867, 11868, 11869, 11870, 11871, 11872, 11873, 11874, 11875, 11876, 11877, 11878, 11879, 11880, 11881, 11882, 11883, 11884, 11885, 11886, 11887, 11888, 11889, 11890, 11891, 11892, 11893, 11894, 11895, 11896, 11897, 11898, 11899, 11900, 11901, 11902, 11903, 11904, 11905, 11906, 11907, 11908, 11909, 11910, 11911, 11912, 11913, 11914, 11915, 11916, 11917, 11918, 11919, 11920, 11921, 11922, 11923, 11924, 11925, 11926, 11927, 11928, 11929, 11930, 11931, 11932, 11933, 11934, 11935, 11936, 11937, 11938, 11939, 11940, 11941, 11942, 11943, 11944, 11945, 11946, 11947, 11948, 11949, 11950, 11951, 11952, 11953, 11954, 11955, 11956, 11957, 11958, 11959, 11960, 11961, 11962, 11963, 11964, 11965, 11966, 11967, 11968, 11969, 11970, 11971, 11972, 11973, 11974, 11975, 11976, 11977, 11978, 11979, 11980, 11981, 11982, 11983, 11984, 11985, 11986, 11987, 11988, 11989, 11990, 11991, 11992, 11993, 11994, 11995, 11996, 11997, 11998, 11999, 12000, 12001, 12002, 12003, 12004, 12005, 12006, 12007, 12008, 12009, 12010, 12011, 12012, 12013, 12014, 12015, 12016, 12017, 12018, 12019, 12020, 12021, 12022, 12023, 12024, 12025, 12026, 12027, 12028, 12029, 12030, 12031, 12032, 12033, 12034, 12035, 12036, 12037, 12038, 12039, 12040, 12041, 12042, 12043, 12044, 12045, 12046, 12047, 12048, 12049, 12050, 12051, 12052, 12053, 12054, 12055, 12056, 12057, 12058, 12059, 12060, 12061, 12062, 12063, 12064, 12065, 12066, 12067, 12068, 12069, 12070, 12071, 12072, 12073, 12074, 12075, 12076, 12077, 12078, 12079, 12080, 12081, 12082, 12083, 12084, 12085, 12086, 12087, 12088, 12089, 12090, 12091, 12092, 12093, 12094, 12095, 12096, 12097, 12098, 12099, 12100, 12101, 12102, 12103, 12104, 12105, 12106, 12107, 12108, 12109, 12110, 12111, 12112, 12113, 12114, 12115, 12116, 12117, 12118, 12119, 12120, 12121, 12122, 12123, 12124, 12125, 12126, 12127, 12128, 12129, 12130, 12131, 12132, 12133, 12134, 12135, 12136, 12137, 12138, 12139, 12140, 12141, 12142, 12143, 12144, 12145, 12146, 12147, 12148, 12149, 12150, 12151, 12152, 12153, 12154, 12155, 12156, 12157, 12158, 12159, 12160, 12161, 12162, 12163, 12164, 12165, 12166, 12167, 12168, 12169, 12170, 12171, 12172, 12173, 12174, 12175, 12176, 12177, 12178, 12179, 12180, 12181, 12182, 12183, 12184, 12185, 12186, 12187, 12188, 12189, 12190, 12191, 12192, 12193, 12194, 12195, 12196, 12197, 12198, 12199, 12200, 12201, 12202, 12203, 12204, 12205, 12206, 12207, 12208, 12209, 12210, 12211, 12212, 12213, 12214, 12215, 12216, 12217, 12218, 12219, 12220, 12221, 12222, 12223, 12224, 12225, 12226, 12227, 12228, 12229, 12230, 12231, 12232, 12233, 12234, 12235, 12236, 12237, 12238, 12239, 12240, 12241, 12242, 12243, 12244, 12245, 12246, 12247, 12248, 12249, 12250, 12251, 12252, 12253, 12254, 12255, 12256, 12257, 12258, 12259, 12260, 12261, 12262, 12263, 12264, 12265, 12266, 12267, 12268, 12269, 12270, 12271, 12272, 12273, 12274, 12275, 12276, 12277, 12278, 12279, 12280, 12281, 12282, 12283, 12284, 12285, 12286, 12287, 12288, 12289, 12290, 12291, 12292, 12293, 12294, 12295, 12296, 12297, 12298, 12299, 12300, 12301, 12302, 12303, 12304, 12305, 12306, 12307, 12308, 12309, 12310, 12311, 12312, 12313, 12314, 12315, 12316, 12317, 12318, 12319, 12320, 12321, 12322, 12323, 12324, 12325, 12326, 12327, 12328, 12329, 12330, 12331, 12332, 12333, 12334, 12335, 12336, 12337, 12338, 12339, 12340, 12341, 12342, 12343, 12344, 12345, 12346, 12347, 12348, 12349, 12350, 12351, 12352, 12353, 12354, 12355, 12356, 12357, 12358, 12359, 12360, 12361, 12362, 12363, 12364, 12365, 12366, 12367, 12368, 12369, 12370, 12371, 12372, 12373, 12374, 12375, 12376, 12377, 12378, 12379, 12380, 12381, 12382, 12383, 12384, 12385, 12386, 12387, 12388, 12389, 12390, 12391, 12392, 12393, 12394, 12395, 12396, 12397, 12398, 12399, 12400, 12401, 12402, 12403, 12404, 12405, 12406, 12407, 12408, 12409, 12410, 12411, 12412, 12413, 12414, 12415, 12416, 12417, 12418, 12419, 12420, 12421, 12422, 12423, 12424, 12425, 12426, 12427, 12428, 12429, 12430, 12431, 12432, 12433, 12434, 12435, 12436, 12437, 12438, 12439, 12440, 12441, 12442, 12443, 12444, 12445, 12446, 12447, 12448, 12449, 12450, 12451, 12452, 12453, 12454, 124